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Myers, P.

1973 - 1975

Catalogue

#131 - 1299

Paraguay

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Catalogue

Gral. Franco
Corner of España & Kubitschek st, Asunción,
Paraguay

20 May	131	♂	Molossid	100×40×10×21×5
	132	♂		103×40×10×19×5
	133	♂		98×37×10×19×5
	134	♀+		97×34×9×18×4
	135	♀+		95×33×10×18×4
	136	♀+		99×33×9×20×4
	137	♀+		95×36×10×19×4
	138	♀+		98×32×11×19×5
	139	♀+		96×32×9×18×4
	140	♀+		102×36×9×19×5
	141	♀+		96×33×9×18×4
24 May	142	♀	Echimys	90×39×9×12×6

1.6 km NE of Jcn of Ave. General Genes & Ave. San Martin,
on Gral. Genes, Asuncion, Paraguay

2 June	143	♀	Rattus	nipples sl. enl., not lac. vag. open. pelvis notched preg - 3L, 5R, 9mm 375×205×32×21
	144	♀	Didelphis	669×337×52×60
3 June	145	♀	Didelphis	647×319×46×57
	146	♂	Didelphis	719×352×50×57
8 June	147	♂	Didelphis skull only	720×353×54×54
9 June	148	♀	guinea pig	follicles vis. nipples large not lac. pel. sl. notched. Parous nonbreeding uterus large, vascular, flaccid 224×0×48×27
~~13 June~~	~~149~~	?	skull only	

13.1 km E of Juguean rd between Juguea & San Bernardino, Dept. Central, Paraguay

13 June	149	?	skull only	?

Gral. Franco
Corner of España & Kubitschek, Asunción, Paraguay

18 June	150		spadefoot toad	

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1.6 km NE of jct Ave General Genes & Ave San Martin

Asuncion Paraguay

19 June	151 ♀	Rattus	nipples enl. nor lac, pelvis hor dlgd	preg, 6L 2R	CR = 7	382 × 216 × 32 × 23
	152 ♀	Rattus	nipples enl, nor lac, pel notched	preg, 7L 1R	CR = 12	378 × 210 × 31 × 24
	153 ♂	Rattus	Testes 22, white, tubules vis. scrotal			350 × 193 × 34 × 22

Chaco Experimental Stn. 295 km NW Villa Hayes on Trans-Chaco Hwy, Dept. Presidente Hayes, Paraguay

22 June	1540 ♀	vag. cl., pel. notched, 2-3 enl. fol. la. ovary		199 × 79 × 24 × 19
	1550 ♀	pel. closed; 6 scars on rt., 3 on left		[258+] × [120+] × 30 × 24
	1560 ♀	vag. op.; pel. cl.; ut. tiny		283 × 156 × 30 × 24
	1570 ♀	pel. notched; vag. op.; nipples enl. no milk	2 CLL, 3 CLR, ut very swollen	229 × 0 × 37 × 20
	158			
	159			
	160			
	161			
	162			
23 June	163 ♂	Testes 9 mm abd, Tubules not vis		197 × 90 × 21 × 18
	164 ♂			199 ~~129~~ × 82 × 23 × 18
	165 ♀	pelvis closed, uterus tiny		164 × 65 × 19 × 16
	166 ♂	Testes 7 mm, abd, Tubules not vis		170 × 75 × 22 × 17
	167 ♂	Testes 6 mm abd, tubules not vis		156 × 69 × 22 × 16
	168 ♂	Testes 4 mm, abd, tubules not vis		161 × 73 × 21 × 17
	169 ♂	Testes 4 mm, abd, Tubules not vis		157 × 65 × 21 × 17
	170 ♀	~~Testes 5 mm abd~~ uterus Tiny		157 × 66 × 19 × 16
	171 ♂	Testes 5 mm, abd		156 × 63 × 21 × 16
	172 ♀			155 × 69 × 19 × 16
	173 ♀	pelvis closed, uterus tiny		168 × 74 × 21 × 17
	174 ♂	Testes 10 mm, abd, Tubules not vis.		231 × 140 × 35 × 16

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Chaco Experimental Stn, 295 km NW Villa Hayes on Trans-Chaco Hwy, Dept Presidente Hayes, Paraguay

24 June	175 ♀		190 x 68 x 24 x 16
	176 ♀	pel closed, UT TINY	179 x 67 x 23 x 15
	177 ♂	testes 6mm, abd	204 x 74 x 26 x 19
	178 ♀	pel closed uterus tiny	200 x 0 x 39 x 22
	179 ♂	testes 8mm	[115+] x [15+] x 16 x [0]
	180 ♀	pel. closed, uterus tiny	206 x 87 x 26 x 20
	181 ♀	pel. closed, ut. tiny	179 x 67 x 25 x 19
	182 ♀	pel. notched, ut. tiny, 3 scars left	187 x 69 x 25 x 19
	183 ♂		[225+] x [86+] x 34 x 24
	184 ♂	testes 5mm abd	[215+] x [86+] x 30 x 24
	185 ♀	pelvis closed, UT TINY, 5 scars R, IL	295 x 160 x 30 x 24
	186 ♀	uterus tiny	538 x 273 x 40 x 52
	187		
	188		
25 June	189 ♀	UT TINY	213 x 122 x 25 x 17
	190 ♀ ♂	Testes 5mm, abd	225 x 138 x 26 x 19
	191 ♀	pelvis notched, UT TINY	168 x 67 x 21 x 16
	192 ♂	testes 15mm abdominal, tubules vis.	350 x 169 x 39 x 21
	193 ♀	pel. notched ut. tiny	284 x 131 x 39 x [17+]
	194 ♂	testes 17mm abd., tubulls visible	329 x 149 x 39 x 19
	195 ♀	pel. notched ut. tiny	298 x 137 x 39 x 21
	196 ♂	testes 16mm tubules vis., abdominal	340 x 165 x 40 x 20
	197 ♂	testes 6mm abdominal, tub. not vis.	301 x 140 x 42 x 20
	198 ♂	testes 9mm abdominal, tub. not vis.	315 x 151 x 40 x 20
	199 ♂ imm.		222 x 107 x 31 x 19
	200 ♂	testes 10mm abd, tubules not vis.	272 x 140 x 36 x 19

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Chaco Experimental Stn. 295 km NW Villa Hayes on Trans-Chaco Hwy. Depto. Presidente Hayes, Paraguay

25 June
201 ♀ testes 9mm abd., tubules not visible — 289 x 142 x 40 x 20
202 ♂ testes 6mm abd., tubules not visible — 305 x 145 x 39 x 20

26 June
203 ♂ testes 9 mm, abd, tubules not vis. — 178 x 78 x 21 x 17
204 ♂ testes 11 mm, abd, tubules vis — 198 x 83 x 23 x 17
205 ♀ ? — 184 x 80 x 27 x 20
206 ♂ testes 5 mm abd, tubules not vis. — 276 x 164 x 32 x 23
207 ♀ ? skeleton — 277 x 149 x 31 x 25
208 skeleton — 279 x 156 x 33 x 24

Ave General Genes, 1.6 km NE jct Ave. San Martin, Asunción Paraguay

7 July
209 ♂ T=5mm, abd — 80 x 0 x 15 x 22 x 9
210 ♀ preg, swelling 4mm, cl ovary — 78 x 0 x 13 x 20 x 7

Gral. Franco & Kubitschek Sts, Asunción, Paraguay

9 July
211 ♂ T=5mm, abd — 76 x 0 x 14 x 21 x 5

Encarnacion, Dept Itapúa, Paraguay

12 July
212 ♂ T=3mm, abd — 90 x 31 x 10 x 19 x 3
213 ♂ t=7mm abd — 110 x 37 x 10 x 19 x 5
214 ♂ T=5mm, abd — 108 x 34 x 10 x 20 x 2
215 ♂ T=7mm, abd — 115 x 38 x 10 x 20 x 5

13 July Ave Gral Genes & Ave San Martin, Asunción, Paraguay

216 ♀ pel open, preg swelling 4mm cl left ovary — 80 x 0 x 13 x 20 x 7
217 ♀ pel open, no placental scars, ut enlarged, cl lft — 94 x 0 x 18 x 18 x 8

15 July Corner of Gral. Franco and Kubitschek Sts, Asunción, Paraguay

218 ♂ testes vis = 4 mm, tub not vis — 129 x 51 x 11 x 14 x 7

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124 km N of Coronel Oviedo on Rte 3, Dept. San Pedro, Paraguay

16 July

219 ♀ — preg., 2R 2L, CR=24 mm — 198×80×26×19

220 ♂

8 km E of Concepcion by rd, Depto Concepcion, Paraguay

pel closed, ut. med, follicles vis, nipples ant, not lac, hair worn

17 July 221 ♀ — 230×105×31×18

18 July 222 ♂ — t=7mm, tubules not vis, 2 abd — 120×34×13×20×6

molossid

pel closed, vag. w. gel plug, ut tiny

223 ♀ — 136×48×12×18×6

224 ♂ — T=6, abd, tub not vis — 126×39×12×18×5

225 ♂ — t=9 tub not vis. 2 abd — 142×48×14×17×4

pel cl, ut. med, Follicles vis.

226 ♀ — 130×42×14×17×4

227 ♂ — T=9, Tubules vis, scrotal — 129×41×15×17×5

t=7 scrotal, tub. vis.

228 ♂ — 93×30×10×15×4

pel open, vag open, nipples ant, not lac, hairworm, UT swollen F 4mm, CL lft

229 ♀ — 80×0×14×20×5

pel open, vag open, UT swollen=4mm, CL lft

230 ♀ — 70×0×14×16×5

231

232 ♂ — T=6, scrotal, tub. not vis. — 71×0×14×19×7

233 ♂ — t=5 tub. not vis, 2 abd — 69×0×14×18×6

234 ♂ — t=4 2 abd, tub. not vis — 96×0×18×23×7

pel. open, vag. open, ut. swollen = 4 mm, CL left

235 ♀ — 109×0×18×20×8

t=4 2 abd, tub. not vis.

236 ♂ — 70×0×15×18×6

237 ♂ — t=2 2 abd, tub not vis. — 64×0×14×19×7

238 ♂ — t=8 scrotal, tub. vis, SV=3 — 77×0×15×17×7

239 ♂ — t=2 abd, tub not vis. — 65×0×14×18×6

19 July 240

t=7 2 abd tub. vis.

241 ♂ — 101×29×11×20×5

pel open, vag open, UT swollen, vascular

242 ♀ — T=6, scrotal — 117×40×12×21×5

243 ♂ — Tip of Tail — 116×26×33×31×8

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8 km E of Concepción by rd, Depto. Concepción, Paraguay

20 July

244 ♀ nipples enl, not lac, pel open, vag open, ut med, R side larger — 117×39×14×19×6

245 ♂ T=9, scrotal — 102×33×11×20×6

246 ♂ T=9, abd — 110×40×14×35×13

247 ♂ T=8, scroral, sv large! — 85×31×9×11×5

248 ♀ pel. open, ut medium — 346×176×40×18

249 ♀ pel open preg, IR, IL, swollen, well = 13mm — 234×0×44×25

250 ♀ pel open, ut swollen, vascular R side larger — 124×40×14×20×5

251 ♂ T=8, scroral, tub visible — 101×34×11×20×6

21 July

252 ♀ preg, IR, CR=45 — 375×173×44×22

253 ♂ T=10, abd — 325×161×41×21

~~254~~ see 276

~~255~~ see 277

~~256~~ see 278

22 July ~~257 ♀~~ ut small, follicles vis, pel open — see 279 — ~~265×130×39×19~~

~~258 ♂~~ see 280 — ~~397×177×45×24~~

23 July

254 ♀ ut tiny, pel closed — 185×89×28×15

255 ♂ scrotal, T=18, tub vis, SV=20 — [342+]×[145+]×47×19

256 ♀ pel. closed, ut. small — 93×34×8×8×6

257 ♀ pel. open, vag. open, nipples enl., not lact., preg. swell. = 7mm CL left — 106×22×12×30×10

258 ♂ t=9 tub. vis., abd. — 94×0×14×23×8

259 ♂ t=2? SV=4 swollen abd. — 115×51×9×17×9

260 ♂ t=5 tub. vis., abd — 76×0×12×18×7

261 ♀ ut. med, pel. open, vag. open — 119×33×15×19×5

262 ♀ preg, swelling = 9 mm, lft side — 125×46×13×15×4

24 July

263 ♀ t=4, abd, tub not vis. — 81×34×8×12×4

264 ♂ — 120×53×11×18×10

265 ♀ sixty-four — 69×27×8×13×3

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8 km E of Concepcion by rd., Depto. Concepcion, Paraguay

24 July	266 ♀	Tick, immature	76×26×7×13×3
	267 ♂	T=8, ~~scrotal~~ abd. Tube not vis.	80×0×11×15×6
	268 ♀	pel. open preg CR=18mm	69×0×13×16×4
	269 ♂	T=9 tub. vis., abd	109×0×15×24×10
	270 ♀	preg CR=25 mm pel. open, vag open	70×0×12×18×8
	271 ♂	T=7 scrotal tub. not vis	134×45×13×18×5
	272 ♀	pel notched, UT small	142×48×17×24×7

28 km S of jct rt 3 & rt 5 on rt 3, Depto. Concepción Paraguay

25 July	273 ♂	T=9, abd	336×168×35×24
	274 ♂	T=18, abd. Tub vis	295 ~~287~~×78×34×20
	275 ♂	T=18, abd, Tub vis	297×90×36×20

~~Corner of ave del Gral Franco y Kubelschek, Asuncion, Paraguay~~ 8 km E Concepción by rd., Dept. Concepción, Paraguay

~~21 July~~ ~~28 July~~	276		
	~~277~~		
	278		
22 July	279 ♀	UT small, follicles vis, pel open	265×150×39×19
	280 ♂		397×177×45×24

28 July — corner of ave del Gral. Franco & Kubitschek, Asunción, Paraguay

	281		
	282 ♀	T=7, abd, tub not vis.	76×0×15×23×9

1.6 km by rd NE jct Ave General Genes & Ave San Martin, Asuncion Paraguay

30 July	283 ♂	T=9, abd, Tub. vis.	94×0×16×24×10=45g
	284 ♂	T=9, abd, Tub vis	96×0×16×24×9=45g
	285 ♂	T=7 abd, tub not vis.	96×0 20×25×10=54g

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1.6 km NE jct Ave. General Genes & Ave. San Martin, Asuncion, Paraguay

30 July

286 ♂ t=7 abd, tub. uis — 112×0×21×25×10 = 70g

vag. open pel. notched, prog swell=10, CL RT

287 ♀ — 102×0×18×27×11 = 57g

pel. open, vag open

288 ♀ — 96×0×17×26×10 = 60g

T=3, tub notuis, abd

289 ♂ — 68×0×14×18×8 = 18.5g

pel. open, vag. open ut swell = 3mm CL rt.

290 ♀ — 73×0×15×19×8 = 18.5g

t=3 abd tub notuis

291 ♂ — 70×0×15×21×8 = 19.5g

5 August

292 ♂ T=1mm, — 49gr, sl fat, sk ½ oss.

t=7 tub. notuis., abd.

293 ♂ — 82×0×14×22×9 = 29g

T=3, tub notuis, abd

294 ♂ — 78×0×13×20×8 = 28g

T=9, abd

295 — 94×0×19×26×9 = 52

8 August

jct Ave Gral. Franco & Kubitschek Asuncion, Paraguay

2969 — 75×0×14×22×9

UT-swell=2mm, RT ovary w.cl?, pel open, vag?

297 ♀ — 92×0×18×26×10 = 50g

UT swell = 3mm, RT ovary w CL? pel open, vag open

298 ♀ — 100×0×20×27×11 = 48g

pel open, vag open, UT tiny, ~~nodules~~

~~299 ♂~~ 1.6 km NE jct Ave General Genes & Ave. San Martin, Asuncion, Paraguay

10 August

299 ♂ t=10 tub. uis, abcd. — 91×0×18×21×9 = 52g

prog, swell=10mm, CL RT. pel open, vag open

300 ♀ — 91×0×20×25×11 = 49g

prog, swell=9mm, CL RT, pel open, vag open

301 ♀ — 75×0×15×22×8 = 24g

UT swelling=6, CL lft, pel open, vag closed

302 ♀ — 109×0×22×26×11 = 77g

8.4 km E of Paraguari by rd, Dept. Paraguari, Paraguay

13 Aug

303 Tropidurus

304 Anole?

17 km E of Tacuara by rd Dept Central Paraguay

13 Aug

305 ♀ — collby Conaford 219×126×26×18 = 23g

vag cl, pel not visible, prog swell=2mm, 2R 1L

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17 km E of Iruña by rd, Dept Central Paraguay

13 Aug
306 ♂ T=7, abd, tib not vis, FSU=6 — coll by CB Koford — 182×104×26×16 = 14g
307 ♀ — coll by CB Koford — 417×212×31×36 = 126g

20 km E of Iruña by rd, Dept. Central, Paraguay

308 ♂ T=3 mm, abd — 89×21×18×26×9 = 31g

jct ave Gral Franco & Ave. Kubitschek, Asunción, Paraguay

14 Aug
309 ♂ T=6, abd, tib not vis — 76×0×14×20×7 = 23g
310 ♀ pel cl, vag cl — 128×58×12×20×11 = 15g
311 ♀ pel cl, vag cl — 130×52×12×21×12 = 15g

9.4 km E of Paraguarí by rd, Dept Paraguarí, Paraguay

15 Aug
312
313 Tropidurus - like 303
314
315 ♂ T=4mm — sl fat — 20g

jct ave Gral Franco & Ave Kubitschek, Asunción, Paraguay

pel cl, vag cl, ut. tiny
316 ♀ — 111×49×10×13×8 = 9.9

5 km E Asunción, Asunción, Paraguay

16 Aug
318 Cnemidophorus
319 "
320 ♀ pel cl, vag cl — Leptodactylus — T=8, abd, tib not vis — 95×38×10×16×9 = 8.9g
321 ♂ — 94×38×9×16×9 = 7.5g
322 ♀ pel open, vag cl — Labidus egg — T=7, abd, tib not vis — 131×51×10×20×12 = 18.5g
323 ♂ — 111×35×13×20×6 = 24.0g
324 ♀ pel open, vag open, ut swell = 6, CL RF — Ameribeus — skull only — 107×0×22×27×11 = 77 g
325 ♀ pel open, vag open, ut swell = 4, CL RF — Ameribeus — skull only — 104×0×21×25×10 = 66g
326

9.4 km E of Paraguarí by rd, Dept. Paraguarí, Paraguay

ovary 16×4, largest foll. = 1mm
29 Aug 326 ♀ — sl fat, — 71g

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17 km E of Fuerte Ly rd., Dept. Central, Paraguay

1 Sept	327 ♀	preg., swell = 2mm, 2R, 1L	187 × 109 × 21 × 14 = 16.5g
2 Sept.	328 ♀	L. ovary 9 × 6mm. largest foll. = 1mm	med fat 29g
	329 ♀	ovary 9 × 5 mm, max. foll = 2mm	sl fat sk. oss. 30g
	330 ♂	T = 4mm	sl fat 61g
	331 ♂	T = 3mm	sl fat sk. oss. 12g
	332 ♀	ovary = 5 × 3, max foll = 0.5mm	sl fat sk. oss 14g
	333 ♂	T = 2mm	sl fat sk. oss. 13.5g
	334 ♂	T = 5mm	sl fat sk oss. 6.9g
	335 ♀	ovary 7 × 3mm, max foll. 1 mm	sl. fat. 15.[illegible]g
	336 ♂	T = 11	sl fat sk. oss. 41g

Cerro Santa Tomas, 2 km E of Paraguarí, Dept. Paraguarí, Paraguay

3 Sept	337 ♀	preg., CR = 25mm, CL left	164 × 46 × 25 × 47 × 12 = 89g
	338 ♂	T = 6mm, abd., Tub notuis	158 × 50 × 25 × 50 × 12 = 77g
	339 ♀	or tiny, pel open, vag closed. (nose deformed)	165 × 45 × 25 × 49 × 14 = 88.0
	340		

Chaco Experimental Station, 235 km NW Villa Hayes by road, Depto. Pte. Hayes, Paraguay

9 Sept.	341 ♀	preg. 1R, 1L CR = 9	100 × 38 × 10 × 16 × 9 = 7.5g
	342 ♀	preg 2R, 1L CR = 5	97 × 35 × 10 × 16 × 9 = 7.5g
	343 ♂	t = 9 scrotal	95 × 38 × 10 × 15 × 9 × = 8.0g
	344 ♀	preg 2R, 2L swelling = 5	97 × 39 × 11 × 16 × 11 = 8.5g
	345 ♀	preg 1R, 1L, 1? Swell = 5 resorbing?	95 × 35 × 10 × 16 × 10 = 7.5
	346 ♀	preg., 2R, 2L, swell = 4	86 × 29 × 10 × 15 × 10 = 7.5
	347 ♀	preg 1R swell = 9 mm	74 × 23 × 9 × 14 × 4 = 5g
	348 ♀	preg 1R swell = 8 mm	72 × 24 × 9 × 13 × 4 = 5.5g
	349 ♀		79 × 29 × 8 × 14 × 4 = 6.5g

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Chaco Experimental Station, 295 km NW Villa Hayes by road, Depto. Pte. Hayes, Paraguay

9 Sept.	350 ♂	t=5 scrotal SV=2mm	76 x 27 x 9 x 13 x 4 = 6.0g
	351 ♂	t=3 scrotal SV=1mm	73 x 26 x 9 x 15 x 5 = 5.5g
10 Sept	352 ♀	ovary 10 x 6 mm, max follicle = 2 mm	sl. fat, sk. oss.
	353 ♂	T=4	16g, sl. fat., sk. oss.
	354 ♂	T=25.4, scrotal	86 4 x 304 x 152 x 76
11 Sept	355		19.5g.,
	356 ♂		316 x 83 x 43 x 27
		pel open UT large, flaccid GCL left, 3R	
12 Sept	357 ♀		189 x 75 x 17 x 16
	358 ♀	T=25	101 x 40 x 10 x 15 x 10 = 7.5g
	359 ♂		635 x 254 x 114 x 50
	360 ♀	preg, 4 embryos, CR=60, CL left.	635 x 279 x 114 x 51
	361 ♀	t=11mm abd., SV=15mm flaccid	194 x 115 x 25 x 16 = 13.0g
	362 ♂	pel. cl., vag. cl.	skull destroyed [171+] x [45+] x 24 x 17 = 51g
	368 ♀	"	skull destroyed 175 x 60 x 23 x 16 = 24g
	364 ♂	"	194 x 73 x 26 x 15 = 41g
	365 ♂	"	192 x 71 x 25 x 17 = 33g
	366 ♀	pel. closed, vagina closed	skull destroyed 152 x 66 x 21 x 17 = 20g
	367 ♀	like 366	skull only 165 x 70 x 22 x 17 = 24g
	368 ♂	"	224 x 93 x 29 x 22 = 62g
	369 ♂	"	skull destroyed 235 x 92 x 31 x 22 = 69g
	370 ♂	"	211 x 93 x 29 x 22 = 65g
	371 ♂	"	skull destroyed 185 x 75 x 22 x 17 = 35g
	372 ♀	pel. cl., vag. cl. 3 scars left	skull destroyed 203 x 80 x 22 x 19 = 42g
	373 ♂	"	skull destroyed 220 x 90 x 28 x 21 = 66g
	374 ♀	pel. cl., vag. cl.	205 x 80 x 27 x 20 = 45g
	375 ♀	pel not closed, vag cl, 3 scars L, 3 scars rt	skull only 177 x 71 x 22 x 17 = 31g

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Chaco Experimental Station, 245 km NW Villa Hayes by rd.,
Dept Pte Hayes, Paraguay

12 Sept	376 ♀	vag cl, pel cl	skull only 170 x 74 x 21 x 18 = 2g.
	377 ♂	T=9, abd, SV=4	skull only 174 x 76 x 23 x 17 = 30 g
	378 ♂	T=13, abd, SV=15	skull only 176 x 68 x 22 x 18 = 38 g
	379 ♂	T=8, abd, SV=9	skull only 200 x 80 x 26 x 19 = 42 g
	380 ♀	pel cl., vag cl.	skull only 196 x 78 x 27 x 20 = 41 g
	381 ♀	pel notched, vag open, 2 scars lft 1 scar rt	skull only 220 x 83 x ~~27~~ x 19 = 60 g
13 Sept	382 ♂	T=12, SV=12, abd,	219 x 85 x 23 x 18 = 38 g
	383 ♀	pel cl, vag. open 3 scars L, 1 scar rt	177 x 84 x 23 x 19 = 36 g
	384 ♂	T=10, abd SV=14	207 x 79 x 26 x 17 = 52 g
	385 ♂	T=11, abd, SV=6	189 x 77 x 24 x 16 = 33 g
	386 ♂	T=10, abd SV=12	202 x 90 x 27 x 20 = 51 g
	387 ♂	T=12, abd SV=10	223 x 86 x 29 x 20 = 66 g
	388 ♂	T=11, abd SV=11	222 x 89 x 26 x 22 = 61 g
	389 ♀	pel cl. vag cl. preg, swell = 3 mm 3R, 2L scars 4Rt	205 x 80 x 28 x 21 = 43 g
	390 ♂	T=11, abd SV=13	217 x 81 x 27 x 19 = 60 g
	391 ♀	vag cl, pel notched	189 x 73 x 26 x 20 = 37 g
	392 ♂	scrotal T=25	813 x 311 x ~~88~~ 125 x 5-1
	393 ♀	scrotal	788 x 356 x 89 x 45 skull only & baculum 939 x 305 x 125 x 76
	394 ♂	t=4, tubules not vis 1bd., SV = 2mm swollen	79 x 33 x 9 x 15 x 6 = 4.5 g
	395 ♂	t=3 mm SV not vis	79 x 30 x 8 x 15 x 6 = 5.5 g
	396 ♂	pel notched. vag open, preg rt head-romp = 9 mm	74 x 27 x 9 x 14 x 5 = 5g
	397 ♀	pel notched, vag open preg Rt. HR = 8	73 x 22 x 8 x 14 x 5 = 4.5 g
	398 ♀	pel notched, vag open preg CR = 8 rt	77 x 24 x 8 x 15 x 6 = 5.5 g
	399 ♀	t=3mm tub. not vis SV = 2mm swollen	76 x 26 x 9 x 14 x 6 = 4.5 g
	400 ♂	vag open. pel. open, preg rt CR = 6mm	72 x 20 x 9 x 14 x 4 = 4.5 g
	401 ♀		

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Catalogue

Chaco Experimental Station 295 km NW Villa Hayes by road, Depto Pte Hayes, Paraguay

13 Sept 402 ♀ vag cl., pel. notched preg + CR=8mm 77x23x9x15x5 = 5.5g

403 ♀ vag open, pel. notched preg + CR=10mm 73x25x8x14x5 = 5.0g

404 ♀ vag cl., pel. cl., preg. 1R CR=9mm 106x42x11x16x10 = 7.5g

14 Sept. 405 ♀ pel. notched, vag cl., preg 1R 1L CR=14 98x41x16x15x10 = 8.5g

17 Sept. 406 ♀ pel. open, vag. open, preg 1R 1L CR=10mm 100x39x10x17x10 = 9.5g

18 Sept 407 ♀ ovary 4x2 19g skins, med fat

408 ♀ ovary 9x5mm, max foll dia = 2mm 33g, skins, sl. fat

~~409 ♀ vag open, pel? large follicles~~ ~~skull only 295x0x77x53~~

310 km NW Villa Hayes by rd. 8 Sept. Depto Pte Hayes, Paraguay

409 ♀ vag open, large follicles skull only 295x0x77x53

410 ♀ ovary 9x4mm, max foll = 1mm 35g, skins, sl. fat

Chaco Experimental Station 295 km NW Villa Hayes by rd. Depto Pte. Hayes, Paraguay

20 Sept 411 ♀ ovary 9x7mm, max foll = 1.5mm 38g., sk. oss., sl fat

412 ♀ pel cl, vag open 6CL R, 1scar L ,85x78x27+20=36g.

413 ♀ vag cl., pel. cl. 169x74x22x18 = 28g

414 ♂ T=14, scrotal SV=18 315x169x34x25 = 95g

415 ♀ vag. cl. pel. cl. 154x59x21x15 = 26g

416 ♂ 163x68x22x17 = 32g

417 ♀ vag. cl. pel. cl. 155x71x21x17 = 25g

418 ♂ t=10mm tub. not vis., SV=12mm 196x77x27x20 = 47g

419 ♀ vag cl., pel. cl. preg, 2R, swell=9mm 206x82x27x32 = 48g

420 ♀ vag op. pel. notched, preg, 1R, 1L, swell=10mm 200x86x28x21 = 46g

421 ♀ vag. cl., pel.? 181x93x26x19 = 39g

422 ♂ t=10 tub. tub not vis. SV=14mm 220x90x29x20 = 60g

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Catalogue

Chaco Experimental Station 295 km NW Villa Hayes by road, Depto. Pte. Hayes, Paraguay

20 Sept. 423 skull only

Pozo Azul, Dept. Pte Hayes, Paraguay

424 snout vent length = 483mm, tip of tail to tip of tail = 1117mm

corner Krubitschek & Generalissimo Franco, Asunción, Paraguay

426 ♀ preg, 1R, 1L, CR = 11 pel open nipples enl., no milk. 96 x 38 x 8 x 16 x 7 = 8.5g

26 Sept. 427 ♀ vag open, pel open, preg, 1R, 1L, CR = 10 Lesions egg 131 x 54 x 11 x 21 x 12 = 16.5g

428 ♀ pel notched, vag. open, preg, 2L, 1R, CR = 7 133 x 55 x 10 x 20 x 12 = 15.9g

429 ♀ vag open, pel notched preg, 1R, 1L, CR = 12 99 x 39 x 9 x 16 x 8 = 10.9g

28 Sept 430 ♀ vag cl, pel notched preg, 2R, 1L CR = 6 111 x 50 x 9 x 13 x 7 = 9.9g

Recoleta Asunción Paraguay

431 ♀ vag cl, pel open preg, 1R, 1L CR = 11 T = 11, abd, SV = 3 96 x 37 x 9 x 13 x 7 = 8.5g

432 ♂ 93 x 37 x 8 x 13 x 7 = 8.9g

433 ♀ vag cl, pel notched, preg, CR = 11, 1R, 1L 99 x 40 x 9 x 15 x 8 = 9.9g

434 ♀ vag cl, pel notched, preg, 1R, 1L, CR = 12 T = 4, abd, Tub. not visible, SV = 1mm 100 x 40 x 9 x 16 x 9 = 9.5g

435 ♂ 81 x 26 x 8 x 14 x 5 = 7,5g

436 ♂ T = 6, abd, Tub not vis, SV = 1 80 x 0 x 13 x 22 x 8 = 22g

29 Sept 437 ♀ vag open, pel open, preg, 2 embryos, CR = 6' 72 x 0 x 11 x 19 x 9 = 18.5g

438 ♀ vag open, pel open, preg, CL left, CR = 22 108 x 0 x 15 x 25 x 10 = 72g

439 ♀ vag open, pel open, preg, 1R, CR = 12 skull only 76 x 21 x 9 x 13 x 4 = 7.5g

corner Krubitschek & Generalissimo Franco Asunción, Paraguay

440 ♀ pel open, vag open, preg, 2R, 1L, swell = 10 134 x 54 x 12 x 20 x 12 = 16.9g

30 Sept 441 ♀ pel cl., vag open preg, 2R, 1L, swell = 10 132 x 55 x 11 x 22 x 14 = 19g

442 ♀ pel open, vag. cl, 1R, 1L, CR = 12 101 x 42 x 10 x 16 x 11 = 9,5g

443 ♀ pel open, vag cl, preg, 1R, 1L, swell = 9 98 x 40 x 10 x 17 x 10 = 8.5g

T = 9, scrotal, Tub. vis. SV = 3

444 ♂ 93 x 39 x 11 x 16 x 10 = 7.5g

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1972

Catalogue

Carmen Kubitschek + Generalisimo Franco, Asuncion, Paraguay

30 Sept. 445 ♂ T=11, scrotal, Tub vis. SV=7 — 99×44×10×17×11 = 7.5g

446 ♂ T=8, abd, Tub not vis, SV<1 — 128×40×14×19×6 = 31.g

Mun. S Tobati Lyrd., Dept. Cordilleras, Paraguay

7 Oct. 447 ♀ pel open, vag open, preg, CR=36

448 ♀ T=5, Tubules not vis, abd — 162 ×44×25×50×15 = 98.g

449 ♂ t: 5mm tub. not vis. — 155×51×26×50×15 = 77g

12 Oct. 450 ♂ vag open, pel. open pregnant CR=44mm — 80×0×18×21×11 = 44g

451 ♀ preg. CR=51mm — 100×0×18×24×14 = 65g

452 ♀ t=7, tubules not vis., SV not vis. — 98×0×19×25×14 = 64g

453 ♂ vag open, pel open — 85×0×19×21×12 = 48g

454 ♀ t=6 tub vis. SV=2mm swollen — 87×0×20×22×12 = 47g

455 ♂ t=6 tub. vis SV=2 swollen — 70×8×11×17×10 = 9.0g

456 ♂ abd. vag. open, pel. open preg CR=18mm CL left — 70×10×11×15×7 = 9.5g

457 ♀ T=6 scrotal tub vis, SV=1 swollen — 73×10×11×16×8 = 10.5g

458 ♂ t=6 scrotal tub. vis SV=2. swollen — 68×10×12×17×10 = 8.5g

459 ♂ vag open, pel. open, preg CL=17 cl. rt. — 68×8×11×16×7 = 9.0g

460 ♀ t=2, tub not vis, SV not vis — 68×9×12×16×7 = 11.5g

461 ♂ vag op., pel. op. Chrt, swell=8 — 66×11×12×17×9 = 8.5g

462 ♀ t=1 abd., tub not vis, SV=1 — 61×9×11×16×8 = 8.5g

463 ♂ t=9 tub. vis, SV tiny, prostate large — 68×8×12×15×7 = 8.5g

464 ♂ scrotal lact., vag. cl., pel. notched; preg 3rt, 1 lft swelling = 4mm — 71×12×13×21×10 = 14.0g

13 Oct. 4650 ♀ t=4 tub. not vis — 345×171×35×23 = 107g

466 ♂ vag. cl., pelvis notched; 1 scar rt, 1 lft — [168+]×[42+]×25×[16+] 42g

467 ♀ t=28 tubules vis — 404×162×46×22 = 294g

468 ♂ — 453×196×49×[24+] = 396g

469 ♂ t=12 scrotal tub. not vis. — 335×25×77×58

470 ♂ — 102×43×10×18×10 = 8.5g

Myers, Phil 1972

Catalogue

1 mi. S. Isbaté by road, Dept. Cordillera, Paraguay

14 Oct. 471 ♂ T=18, Tub v.i, abd — 400 × 175 × 49 × 26 = 292 g

corner Kubitschek & Gral Isasi in France, Asunción, Paraguay

16 Oct 472 ♀ pel open, vag open, preg, 2R, 2L, CR=19 — 130 × 54 × 11 × 21 × 11 = 24 g

473 ♀ pel open, vag cl preg, 2R, 2L, CR=14 — 119 × 54 × 11 × 14 × 8 = 15.5 g

230 km NW Villa Hayes by rd., Dept. Presidente Hayes, Paraguay

22 Oct 474 ♀ pel open, vag cl, preg, CR=15 — 96 × 40 × 10 × 13 × 8 = 8.5 g

475 ♀ vag cl, pel notched, preg, CR=21 — 100 × 41 × 10 × 15 × 9 = 9.5 g

476 ♀ vag cl pel notched preg CR=14 — 97 × 37 × 9 × 14 × 7 = 8 g

477 ♀ vag cl pel notched preg CR=17 — 96 × 37 × 11 × 15 × 9 = 9.5 g

478 ♂ T=2, Scrotal — 75 × 27 × 7 × 13 × 7 = 3.5 g

479 ♀ vag cl, pel op, preg CR=26 — 97 × 20 × 18 × 23 × 6 = 30 g

480 ♂ T=5, abd — 104 × 20 × 18 × 26 × 8 = 32 g

481 ♂ T=3 abd — 93 × 17 × 20 × 27 × 9 = 30 g

482 ♂ T=1, abd — 99 × 9 × 19 × 25 × 8 = 27 g

483 ♀ vag cl, pel open, preg CR=21 — 90 × 20 × 18 × 25 × 8 = 29 g

484 ♀ vag cl, pel open, preg CR=22 — 84 × 16 × 17 × 25 × 8 = 28 g

485 ♀ vag cl, pel open preg CR=17 — skeleton 96 × 20 × 16 × 22 × 9 = 36 g

486 ♂ T=3 abd — 103 × 23 × 19 × 27 × 9 = 31 g

487 ♀ vag op, pel op — 97 × 19 × 19 × 27 × 10 = 24 g

488 ♀ vag op pel op — 92 × 19 × 19 × 26 × 10 = 24 g

489 ♀ vag op, pel op — 96 × 20 × 18 × 26 × 9 = 25 g

23 Oct 490 ♂ T=10, scrotal, SV=7 — 85 × 30 × 9 × 15 × 8 = 6.5 g

491 ♀ vag cl, pel notched, preg CR=23 — 85 × 32 × 10 × 31 × 8 = 7.5 g

492 ♂ scrotal T=8 — 84 × 30 × 9 × 14 × 7 = 5.5 g

493 ♀ vag cl, pel notched low — 88 × 35 × 9 × 15 × 9 = 6.5 g

494 ♂ scrotal T=10 SV=7 — 84 × 33 × 8 × 15 × 8 = 6 g

495 ♀ vag cl, pel notched — 84 × 27 × 9 × 15 × 9 = 6.5 g

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1972

Catalogue

230 km NW Villa Hayes by rd, Depto. Pte. Hayes Paraguay

230ct	496 ♀	vag cl, pel op, lac	75 x 31 x 9 x 14 x 10 = 4.5g
	497 ♀	vag cl, pel op., lac	78 x 31 x 8 x 15 x 9 = 4.5g
	498 ♀	vag op., pel notched, lac	91 x 35 x 10 x 18 x 11 = 6.5g
	499 ♀	vag cl, pel notched, lac	86 x 34 x 9 x 15 x 8 = 6.5g
	500 ♂	T=7; scrotal	106 x 37 x 11 x 13 x 4 = 14.5g
24 Oct	501 ♂	T=5 scrotal	114 x 40 x 11 x 23 x 5 = 15. g
25 Oct	502 ♀	vag cl, pel notched	80 x 31 x 9 x 15 x 9 = 3. 9

Peñiro Mandeyú, 20 km SW of km 205 on Trans Chaco
hwy, Depto. Pte. Hayes, Paraguay

26 Oct	503		
	504		skull only
	505 ♀	Pel op, vag cl, lac	85 x 31 x 8 x 15 x 10 = 4.5g
	506 ♀	pel op, vag op, lac	86 x 38 x 9 x 16 x 9 = 5.5g
	507 ♀	pel op, vag op preg, 1R, 1L, CR=20	99 x 36 x 10 x 17 x 12 = 10.5g
	508 ♀	vag op, pel op, preg, 1R, 1L, CR=25	98 x 40 x 10 x 16 x 9 = 14.g
	509 ♂	scrotal T=8, Tub not vis, SV=4	90 x 36 x 9 x 18 x 11 = 6.5g
	510 ♀	vag op, pel op, preg, 1R, 1L, CR=19	95 x 39 x 9 x 17 x 10 = 10. g
	511 ♀	vag op, pel op, preg, 1R, 1L, CR=22	86 x 37 x 9 x 15 x 10 = 10.5g
	512 ♀	vag op, pel op, preg, 1R, 1L, CR=22	95 x 37 x 9 x 16 x 9 = 10.5g
	513 ♂	abd, T=3, Tub not vis, SV=2	119 x 56 x 11 x 20 x 12 = 11. g
	514 ♂	abd T=2, Tub not vis, SV=2	119 x 52 x 10 x 18 x 12 = 11.g
	515 ♀	vag op pel op preg 1R, 2L, CR=18	130 x 52 x 11 x 20 x 11 = 12.5g
	516 ♀	pel not, vag cl, preg, 2L, 1R CR=12	skeleton 128 x 52 x 11 x 19 x 11 = 15. g
	517 ♂	T=2, abd, Tub not vis	skeleton 120 x 52 x 10 x 19 x 11 = 10.5g
	518 ♀	vag cl, pel op, ut swollen, flaccid	skeleton 98 x 40 x 10 x 17 x 11 = 9.g
	519 ♀	vag cl, pel op, ut very swollen, flaccid	skeleton 96 x 40 x 8 x 16 x 10 = 8. g
	520 ♂	abd T=2, Tub not vis, SV=6, swollen	skeleton 85 x 34 x 9 x 15 x 10 = 4g

Meyers
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1972

Catalogue

Peliro Mandeyú, 20 km SW of km 205 on Trans Chaco highway, Depto. Pte Hayes Paraguay

26 Oct	521 ♂	abd T=3, Tub not vis, SV=4	skel. only 79×33×8×15×9 = 4.9
	522 ♀	pel not, vag cl, lac	" " 90×39×9×14×8 = 6.9
	523 ♂	scrotal, T=8, Tubuis, SV=5, swollen	" " 83×32×9×16×8 = 5.5g
	524 ♀	vag cl, pel notched lac	86×34×9×16×10 = 4.9
	525 ♂	~~abdo~~ scrotal, T=4, tub not vis, SV=3, swollen	80×33×8×17×10 = 4.9
	526 ♂	scrotal T=9, Tubuis, SV=4	92×40×10×18×13 = 8g
	527 ♂	scrotal T=8, Tubnotvis, SV=4	95×35×10×16×9 = 7.9
	528 ♀	pel notched, preg swell=11	80×26×9×16×5 = 8.9
	529 ♀	vag cl, pelop, preg, 1R, 1L, CR=23	103×45×10×17×10 = 11.9
	530 ♀	vag op, pelop, preg, 1R, 1L, CR=15	92×38×10×16×9 = 8.9
	531 ♀	vag cl, pelop, preg, 1R, 1L, CR=18	101×40×10×17×11 = 10.5g
	532 ♀	vag cl, pelop, preg, 1R, 1L, CR=18	96×39×9×18×11 = 10.5g
	533 ♀	vag op, pel not, lac	97×42×10×15×10 = 8.9
	534 ♀	vag op, pelop, lac, ut lag, CLR, CLL	100×40×10×17×11 = 7.5g
	535 ♀	vag op, pelop, lac, CLR, CLL	88×38×8×14×10 = 5.5g
	536 ♂	scrotal T=3, Tub not vis, SV=3, swollen	77×31×8×17×12 = 3.5g
	537 ♂	scrotal, T=4, tub not vis, SV=5, swollen	98×33×8×15^9 = 3.9
	538 ♂	scrotal, T=3, tub not vis, SV=4, swollen	80×32×8×14×9 = 4.9
	539 ♂	scrotal T=9	128×45×15×20×5 = 30.9
	540 ♂	scrotal T=6	132×47×13×19×5 = 25.9
	541 ♀	vag op, pelop preg, CR=22, CLRT	104×35×9×21×5 = 13.9
	~~542~~		~~skull only~~

230 km NW Villa Hayes by rd., Depto Pte Hayes, Paraguay

29 Oct	542	skull only

Recoleta Asuncion, Paraguay

3 Nov	543 ♂	T=7, abd	74×0×14×23^9 = 22.9

Myers
Phil
1972

Catalogue

1. Calle Nº 1 byrd esq ave. General Genes & ave San Martin, Asunción, Paraguay

11 Nov 544 ♀ lac, vag cl, pel op — 102×42×9×14×8 = 9.5
Ephesicus
scrotal T=8, Tubevis
545 ♂ Sturnira — 73×0×13×21×9 = 24.g

12 Nov 546 guyryryhú or Nacanina (Bat cage 27)

Recoleta, Asuncion, Paraguay

5-4 7♀ pel op, vag op — 148×52×15×27×5 = 43.g
Molossid
abd T=7
548 ♂ Molossid — 152×54×15×30×6 = 39.g

5 km E Asunción Paraguay

14 Nov 549 ♀ vag op, pel op, preg CR=48 — 97×0×17×26×11 = 64.g
Artibeus
550 ♀ vag op, pel op, lac — 92×0×18×26×11 = 48.g
Artibeus
551 ♀ vag op, pel op, preg, CR=14, cl rt — 71×0×13×22×9 = 24.5g
552 ♀ vag op, pel op, lac — 72×0×13×21×9 = 26.g
Vampyressa
scrotal T=7 Tubevis
553 ♂ — 70×0×14×18×7 = 19.5g
554 ♂ scrotal T=7 Tubevis — 90×0×16×24×9 = 50.g
555 ♀ vag op, pel op, lac cl rt — skeleton 91×0×18×26×11 = 56.g

Recoleta, Asuncion, Paraguay

14 Nov 556 Frog
557 frog
558 frog
559 frog yellow on inside of hind legs & belly
560 frog
561 frog
562 Frog
Nov 16 563
564

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Catalogue

1 mile S. Sabati by road, Depto. Cordillera, Paraguay

30 Nov.

565 ♂ abd T=7, tub not vis, SV=11 — 196×111×25×[17+J] = 23g

566 ♂ abd T=12, tub vis, SV=25 — 404×210×51×23 = 235.g

567 ♀ vag cl. vest. cl. — 301×168×34×23 = 80.g

568 ♂ abd T=3, tub not vis, SV tiny — 88×0×18×21×10 = 38g

5 km E Asuncion, Asuncion, Paraguay

6 Dec

569 ♂ abd T=5, tub not vis SV 2mm — 88×25×10×15×4 = 12.5g

570 ♀ vag cl, pel notched, lac, preg, 14, swell=11 — 97×40×10×16×10 = 10.g

571 ♂ abd T=3, tub not vis SV=2 — 84×39×10×17×11 = 6.g

572 ♂ abd T=5 Tub not vis, SV=3 — 99×38×10×17×11 = 8.5g

Buen Amigo 230 km NW Villa Hayes by road, Depto. Pte. Hayes, Paraguay

13 Dec.

573 ♀ vag cl., pel. notched scrotal T=10 SV=5 v. swollen — 84×36×10×17×9 = 5.5g

574 ♂ vag cl., pel. cl., ut. tiny — 86×31×11×15×8 = 6.g

575 ♀ vag. cl. pel cl. — 84×35×10×14×8 = 6.5g

576 ♀ + vag cl. pel op, preg. 1R CR=12mm CLR — 87×34×9×15×8 = 6.0g

577 ♀ + vag cl. pel. notched ut. tiny — 86×36×9×15×8 = 6.0g

578 ♀ + t=2 abd. SV=1 — 89×37×9×16×8 = 6.5

579 ♂ vag cl., pel. op, preg 1R swell = 8mm — 78×30×9×15×8 = 5.0g

580 ♀ scrotal t=11 SV=5 swollen — 82×35×10×15×8 = 7.0g

581 ♂ vag. cl., pel. notched. lact., preg 1R, CL rt+lft swelling = 9mm. — 88×38×9×14×7 = 6.5g

582 ♀ + vag cl. pel. notched, ut. tiny — 84×35×8×15×8 = 5.0g

583 ♀ + vag cl., pel. notched, ut. tiny — 83×31×9×15×9 = 6g

584 ♀ + vag cl., pel. cl ut. slightly swollen — 83×37×9×16×10 = 5.5g

14 Dec.

585 ♀ + vag cl., pel cl., preg 1R CR=13mm — 87×34×9×15×8 = 6.0g

586 ♀ + vag cl., pel. op., preg CL eft CR=22mm — 86×35×10×16×8 = 6.5g

587 ♀ + — 91×36×10×15×9 = 7.0g

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-73

Catalogue

Recoleta Asunción, Paraguay

31 Dec 588 ♀ vag cl, pel cl — 99×45×9×13×9 = 6.9g

1 km S Tobatí hy rd. Dept. Cordillera, Paraguay

5 Jan 589

590 ♀ pel op, vag cl — 65×8×13×21×9 = 13g

591 ♀ pel op, vag cl, preg, IR, CR=11 — 76×14×13×23×9 = 18.9g

592 ♂ abd T=3 — 77×0×18×22×10 = 32.9g

593 ♀ vag cl pel op — 69×0×18×21×12 = 27.9g

594 ♀ vag cl, pel op — 70×0×19×19×9 = 23.9g

Recoleta Asunción, Paraguay

595

11 Jan 596 ♂ scrotal T=7 — 99×34×10×21×4 = 13.5g

597 ♀ vag op, pel not, lac. — 134×57×13×19×6 = 25.9g

598 ♂ scrotal T=6 — 136×54×14×19×6 = 25.9g

599 ♂ abd T=4 tub. not vis. — 117×44×14×18×5 = 16.5g

15 Jan 600 ♂

601 ♀ vag cl, pel not, lac — 98×39×11×15×8 = 6.0

602 ♀ vag op, pel not, lac — 102×45×11×16×11 = 7.5g

23 Jan 603 ♀ vag op, pel not, lac — 90×32×8×13×10 = 8.9g

230 km NW Villa Hayes hy rd., Dept Pte. Hayes, Paraguay

27 Jan 604 ♂ abd T=5
vag. cl. pel. notched preg L swell = 10 mm — 123×54×14×20×13 = 11.9g

605 ♀ +
vag cl pel notched. preg L swell = 8mm CL left., CL rt. — 88×34×9×17×11 = 5g

606 ♀ +
vag. cl pel op preg R CR = 11mm — 87×39×9×18×11 = 5g

607 ♀ + — 82×35×9×16×10 = 4.5g

28 Jan 608 ♂
scrotal T=4 tub not vis SV=3, swollen — 82

609 ♂
scrotal T=9mm tub not vis — 82×34×9×16×10 = 4.5g

610 ♂
vag op, pel. notched, ht + ovaries long — 94×18×20×28×11 = 43g

611 ♀ + — 78×17×17×26×11 = 15.5g

Myers, Phil
1973

Catalogue

230 km NW Villa Hayes by road, Depto. Pte. Hayes, Paraguay

28 Jan.	612			
	613	♂	scrotal t=9	114×30×32×36×14=68g
	614	♀	vag. op, pel. cl, CL nt, rt side ut. vasculan	117×37×14×20×6=22.5g
	615	♀	vag. op. pel notched, lact. CL nt	126×42×13×20×6=31g
	616	♂	scrotal t=7mm tub not vis sv=2?	131×40×15×18×7=34g
	617	♂	abd. t=8 tub not vis, sv=4mm	116×40×13×23×7=35g
			vag. cl. pel op, lac CL nt,	
29 Jan.	618	♀	Mystis	79×32×8×14×9=4.0g
	619	♂	abd. t=4 sv=3	91×39×9×16×10=6.5g
	620	♂	abd. t=5mm tub not vis. sv=3 swollen	81×30×8×14×9=4.5g
	621	♂	abd. t=4	118×51×9×20×11=10g
	622	♀	vag cl., pel. notched, nipples enl.	121×49×10×19×11=13g
	623	♀	vag cl. pel cl	125×54×10×22×12=14g
	624	♂	scrotal t=8 tub vis.	88×0×18×24×14=45g
	625	♂	Desmodus abd. t=7 tub vis	87×0×16×22×11=37g
	626	♂	abd. t=5 tub. not vis.	97×39×8×18×4=15g
	627	♂	abd t=5 tub not vis	92×31×9×19×3=12.5g
	628			

295 km NW Villa Hayes by rd, Dept. Pte. Hayes, Paraguay

			T=20	
30 Jan	629	♂		787×356×116×64
31 Jan	630			
	631			

275 km NW Villa Hayes by rd, Dept. Pte. Hayes, Paraguay

	632	♂	T-5, abd. t=4 abd.	82×31×9×15×7=6.g
	633	♂	t=7 abd.	83×35×10×15×8=5.5g
	634	♂	t=4 abd	87×34×10×15×8=5.g
	635	♂		87×36×11×16×8=5.5g

Museum Fluid 1973

Catalogue

295 km NW Villa Hayes by rd, Dept. Pte. Hayes, Paraguay

1 Feb	636 ♂	T = 64, abd	602 × 211 × 81 × 36
	637		
	638		
	639	vag ♂, pal ♂.	
	640 ♀		124 × 52 × 9 × 20 × 11 = 11g
3 Feb.	641 ♂	abd T = 6 SV = 2 Tub not vis.	+ Chromosomes 260 × 139 × 28 × 22 = 47.9
	642 ♀	vag ♂, pal ♂, 3 ♂ ♂.	+ chromosomes 248 × 134 × 27 × 23 = 39.9
5 Feb	643 ♀	vag ♂, pal op. 3 scars rt, 1 scar left + Kaulin	+ chromosomes 204 × 72 × 25 × 22 = 45.9
	644 ♂	T = 6, abd, Tub not vis, SV = 5	+ chromosomes 254 × 135 × 30 × 23 = 43

~~Asuncion~~ 230 km NW Villa Hayes by rd, Dept. Pte. Hayes, Paraguay

10 Feb	645 ♂	T = 8, abd, Tub not vis, SV = 4	+ chromosomes 243 × 135 × 30 × 24 = 34.9

Pirolete, Asuncion, Paraguay

9 Feb	646 ♂	T = 6, abd	126 × 49 × 11 × 21 × 12 = 13.5g
	647 ♀	vag ♂, pal ♂	130 × 52 × 12 × 19 × 12 = 14.5g
17 Feb	648 ♀	vag ♂, pal not.	99 × 46 × 10 × 14 × 8 = 6.5g

213 km NW Villa Hayes by rd, Dept. Pte. Hayes Paraguay

19 Feb.	649 ♀	vag ♂, pal. not.. abd. T = 2, SV = 2 tub not vis.	131 × 55 × 13 × 21 × 11 = 12g
	650 ♂	abd. T = 3 tub not vis	121 × 50 × 11 × 21 × 11 = 8.5g
	651 ♂	abd. T = 3 tub not vis	116 × 47 × 11 × 20 × 11 = 8g
	652 ♂	scrotal T = 6 tub not vis SV = 3	113 × 49 × 10 × 21 × 12 = 9g
	653 ♂	scrotal T = 5 tub. not vis SV = 4	94 × 36 × 10 × 18 × 11 = 7g
	654 ♂		93 × 34 × 10 × 19 × 12 = 7g
	655 ♂	abd. T = 6 tub not vis SV = 4 mm	95 × 38 × 10 × 18 × 11 = 6g
	656 ♂	abd. T = 6 tub not vis SV = 3 mm	95 × 41 × 10 × 18 × 11 = 6g
	657 ♂	scrotal T = 5 mm tub. not vis. SV = 2	71 × 25 × 10 × 15 × 9 = 4g

Myers, Phil 1973

Catalogue

213 km NW Villa Hayes by road, Depto Pte Hayes, Paraguay

19 Feb.

658 ♂ abd. t=4 tub. not vis SV=1 — 81×32×9×18×6 = 6.5g

659 ♂ abd t=4 tub not vis SV=2 — skull only 115×49×9×20×12 = 8g

275 km NW Villa Hayes by rd. Depto Pte. Hayes, Paraguay

20 Feb.

660 ♂ abd t=5 SV=2 tub not vis — 82×33×11×12×9 = 4.5g
vag cl., pel. cl.

661 ♀ abd. t=3, SV=1 — 84×33×10×16×10 = 5g

662 ♂ vag op., pel. op. preg, IR, CR ≈ 20 (aborted in captivity) — 86×34×10×17×10 = 5g

663 ♀ vag cl., pel. notched — 88×33×11×17×9 = 6g

664 ♀ vag op pel op., preg (aborted in captivity) IR cl int, IR op, CR = 20mm — 79×35×10×12×9 = 3.5g

665 ♀ vag cl, pel notched, preg Cl int, l left, IR CR = 14mm — 81×34×9×17×13 = 4g

666 ♀ vag op., pel. op., preg IR, CR = 25 mm — 95×39×11×14×8 = 6.5g

667 ♀ vag cl., pel notched — 83×33×10×17×11 = 6.5g

668 ♀ vag cl. pel. notched — 86×36×12×13×8 = 5g

669 ♀ vag cl. pel. notched — 79×27×8×12×8 = 3g

670 ♀ scrotal t=3 SV=2 tub. not vis. — 88×33×9×16×8 = 4g

671 ♂ abd. t=5 tub. not vis. SV=2 — 85×35×9×16×8 = 5g

672 ♂ abd, t=4 tub. not vis SV=3, swollen — 85×32×9×15×7 = 5g

673 ♂ abd. t=3 tub. not vis. SV=2 — 83×35×8×14×7 = 5.5g

674 ♂ abd t=3 tub not vis. SV=2 — 81×33×9×16×10 = 4g

675 ♂ abd t=3 tub not vis. SV=2 — 82×34×10×13×10 = 4.5g

676 ♂ — 82×29×9×15×9 = 5g

3 km S Acaray dam leg rd, Dept. Alto Parana, Paraguay

(capt. 15 Feb) 23 Feb

677 ♀ lac, pel op, vag op. — + chromosomes 198×90×25×18 = 31g

213 km NW Villa Hayes leg rd, Dept. Pte. Hayes, Paraguay

(capt. 19 Feb) 23 Feb

678 ♀ pel cl, vag cl ut. Tiny — + chromosomes 160×63×23×17 = 24g

679 ♂ t=3 abd — + chromosomes [146+]×[65+]+21×16 = 21.g

680 ♂ scrotal T=9, Tub vis, SV=9 — 172×68×22×17 = 34.g

Myers
Phil
1973

Catalogue

Recoleta, Asunción, Paraguay

28 Feb. 681

682 ♂ scrotal T=7, tub not vis. SV=2 — 113×45×10×18×11 = 9.5g

683 ♂ scrotal T=7, Tub not vis SV=3 — 123×46×9×19×9 = 11.5g

1 March 684 ♀ vag op pel not — 97×45^9×13×8 = 6.9

4 March 685

686

687

12 km N Tobatí by rd., Dept. Cordillera, Paraguay

7 March 688

107 km NW Villa Hayes by rd., Dept. Pte. Hayes, Paraguay

13 ~~14~~ March

689 ♀ vag op, pel cl — skull only 117×52×11×18×11 = 13.5g

690 ♀ vag cl, pel not; abd T=6 — skull only 132×46×11×21×12 = 13.9g

691 ♂ scrotal T=7 — 120×48×9×18×9 = 9.5g

692 ♂ — 116×42×10×19×11 = 8.9g

Recoleta Asunción, Paraguay

14 March 693 ♂ abd T=4, Tub. not vis, — skeleton only 71×0×14×[14+]×[0+] = 19.9g

15 March 694 ♂ scrotal t=5 tub. not vis. SV=3 swollen; vag. op. pel. cl — 94×35×9×16×9 = 5.5g

695 ♀ scrotal T=7 — 104×36×9×17×10 = 8g

17 March 696 ♂ — skull only 115×44×10×18^9 = 10.5g

4 km ESE Asunción, Paraguay

21 March 697 ♀ vag. op. pel. op. lact. — skeleton 84×0×16×25×10 = 47g

698 ♀ vag op, pel op, — skeleton 90×0×19×26×11 = 52g

699 ♀ vag op. pel op — skeleton 85×0×16×25×10 = 48g

700 ♂ scrotal t=7 tub. vis — 84×0×17×22×13 = 42g

701 ♀ vag op. Pel op — 89×0×16×25×10 = 45g

702 ♀ vag op, pel op — 85×0×16×24×9 = 41g

Myers, Phil 1973

Catalogue

4km ESE Asunción, Paraguay

21 March

703 ♀ vag op pel op — 86×0×16×25×10 = 46g
704 ♀ vag op. pel op. lact. — 88×0×16×25×9 = 46g
705 ♀ vag op. pel op. lact. — 89×0×17×24×10 = 51g
706 ♀ scrotal testes tub not vis SV=1 — 66×0×11×18×7 = 18g
707 ♂ vag op. pel not. — 70×0×13×19×7 = 19g
708 ♀ — 103×45×8×12×7 = 7g
709

12km N Jobatí by rd. Depto. Cordillera, Paraguay

23 March

710 ♀ vag. cl. pel notched; scrotal t=4 tub. not vis SV=1 — 245×128×35×19 = 54g
711 ♂ vag cl. pel. op. — 80×33×7×14×9 = 4g
712 ♀ scrotal t=8mm tub vis — 81×34×7×16×9 = 4.5g
713 ♂ abd. t=6 tub. vis. — 100×0×20×27×12 = 72g
714 ♂ ~~t=6 tubules~~ vag op pel op nipples enl., preg. swelling = 5mm CL left. — 63×0×13×19×8 = 21g
715 ♀ vag op. pel op preg. swelling = 10mm CL rt. — 65×0×14×19×8 = 19g
716 ♀ vag op pel op nipples enl. preg. CR = 34mm — 65×0×15×18×7 = 19g
717 ♀ scrotal t=8 — 64×0×14×18×8 = 24.5g
24 March 718 ♂ vag cl. pel cl. — 354×182×29×31 = 77g
719 ♀ scrotal t=8 tub not vis. SV=2 — 125×52×10×19×9 = 14g
720 ♂ vag op pel notched — 89×32×8×16×10 = 7g
721 ♀ abd. t=6 tub not vis SV=1 — 100×21×16×35×14 = 27.5g
722 ♂ abd. t=6 tub not vis SV=1 — 96×17×15×36×16 = 30g
723 ♂ vag op, pel. op., lact. — 99×20×15×37×15 = 32g
724 ♀ abd. t=3 tub not vis SV tiny — 100×0×18×27×10 = 76g
725 ♂ abd t=5 tub vis — 90 x D ×19×25×10× = 41g
726 ♂ vag op, pel op. nipples enl. not lact., preg swelling CL left — 69×0×13×26×9 = 21g
727 ♀ vag op. pel op. nipples enl., not lact. preg CL rt CR = 22mm — 65×0×12×19×8 = 22g
25 March 728 ♀ — 70×0×14×21×8 = 22.5g

Myers
Phil
1973

Catalogue

12 km W Iobati by road, Depto. Cordillera, Paraguay

25 March

729 ♂ zbd. t=5 tub not vis — 97×20×15×39×16 = 30g

730 ♀ vag.op., pel.rp., lact. clrt — 102×23×15×37×15 = 30g

731 ♀ zbd. t=4 tub. not vis. SV=2 swollen — 101×18×16×37×14 = 30g

732 ♂ — 93×33×9×11×5 = 6g

733

734 ♀ vag cl, pel not. preg CR=16. 2R, 5L. + Chromosomes — 357×162×42×21 = 180g

69 km NW Villa Hayes by rd Depto Pte. Hayes, Paraguay

30 March

735 ♀ vag cl, pel. not preg CR=22 3 left, 2 rt — 216×115×24×16 = 37g

736 ♂ scrotzl t=14 tub. vis SV=8 — 195×83×23×17 = 46g

737 ♀ vag. cl, pel. cl. preg 2rt, 1lf. CR=25 — 158×60×19×15 = 35g

738 ♂ scrotzl t=12 tub. vis SV=10 — 205×85×27×20 = 56g

739 ♂ zbd. t=12 tub. vis. SV=11 mm — 205×82×27×21 = 58g

211 km NW Villa Hayes by rd. Depto. Pte Hayes, Paraguay

31 March

740 ♂ zbd t=30 zbd. t=6 tub. not vis. SV=1 — 684×260×102×41

741 ♂ — 111×42×10×20×11 = 10g

275 km NW Villa Hayes by rd. Depto. Pte Hayes, Paraguay

1 April

742 ♀ vag cl. pel. not clrd scrotzl t=4 tub. not vis. SV=2.5 swollen — 83×36×8×14×6 = 4.5g

743 ♂ scrotzl t=4 tub. not vis SV=2 swollen — 80×28×9×13×7 = 4.5g

744 ♂ scrotzl t=5 tub. not vis SV=2 swollen — 76×33×8×14×6 = 4g

745 ♂ — 79×34×8×13×7 = 4.5g

746 ♀ vag cl, pel not scrotzl t=5 tub. not vis. SV=2, swollen — 82×32×8×14×6 = 4.5g

747 ♂ scrotzl t=5 tub. not vis. SV=2.5, swollen — 79×33×8×13×9 = 4.g

748 ♂ zbd. t=4 tub. not vis SV=2, swollen — 80×33×8×14×8 = 4.5g

749 ♂ scrotal t=5 tub. not vis — 77×30×7×14×8 = 4.g

750 ♂ vag op. pel. rp lact. — 87×35×9×12×7 = 7g

2 April

751 ♀ — 84×35×8×14×7 = 4.5g

Myers
Phil
1973

Catalogue

275 km NW Villa Hayes by rd. Depto. Pte. Hayes Paraguay

2 April

752	♀	vag cl., pel. ~~op~~ notched	74×31×8×13×~~9~~ 5 = 3.5g
753	♀	vag cl.; pel. cl.	75×31×9×14×9 = 4.g
754	♀	vag.cl., pel. op. Exct.	80×35×8×12×9 = 4.5g
755	♂	scrotal t=6 tub. not vis. sv=1	85×~~33~~ 33 ×9×15 5 ×7 = 5.5g
756	♂	scrotal t=6 tub. not vis. sv=2, swollen	83×32×9×16×8 = 5.g
757	♀	vag cl., pel. notched	86×35×9×14×10 = 6g
758	♀	vag cl. pel. notched	88×36×9×12×8 = 5.5g
759	♀	vag cl.; pel cl	87×35×10×14×8 = 5g
760	♀	vag cl., pel. cl.	86×33×10×15×8 = 5g
761	♀	vag cl., pel. cl.	88×34×9×15×8 = 5g
762	♀	vag cl. pel. notched	90×36×10×16×10 = 5.5g
763	♀	vag cl. pel cl.	86×35×9×15×9 = 4g
764	♀	vag cl. pel. cl.	83×33×8×15×8 = 3.5g
765	♀	vag cl. pel. cl.	82×33×8×15×8 = 3.5g
766	♀	vag cl. pel cl.	85×34×9×14×7 = 4.g
767	♀	vag cl. pel. notched	87×34×10×15×8 = 5g
768	♀	vag cl. pel. notched	83×31×9×16×8 = 5g
769	♀	vag cl., pel. notched	90×34×10×15×8 = 5.5g
770	♀	scrotal t=5 tub. not vis. sv=2, swollen	86×31×10×15×7 = 5g
771	♂	abd. t=4 tub not vis, sv=1.5	89×34×10×17×9 = 5.g
772	♂	vag op., pel. ~~notche~~ 1	83×33×9×16×8 = 4.5g
773	♀	scrotal t=7 tub. not vis. sv=1	100×40×10×14×6 = 14g
774	♂	sm. follicles vis.	99×32×11×20×4 = 11.5g
775	♀	scrotal t=6 tub. not vis sv=1	914×38×86×108
776	♂	vag cl. pel. notched	97×30×10×22×4 = 12.5g
777	♀		97×33×10×21×4 = 11.5g

3 April

Morris, Dirl 1973

Catalogue

275 km NW Villa Hayes by rd. Dpto. Pte. Hayes, Paraguay.

3 April

778 ♂	scrotal t=6 su=4 swollen	skull only 125×48×10×19×11 = 10.5g
779 ♂	scrotal t=6 su=4 swollen	skull only 121×48×10×20×11 = 11.5g
780 ♂	scrotal t=6 tub notvis su=4, swollen	skull only 123×43×10×20×12 = 11g
781 ♂	scrotal t=5 tub notvis su=2	skull only 118×52×10×19×10 = 9.5g
782 ♀ +	vag cl. pel. notched	97×39×9×17×10 = 8.5g
783 ♂	abd t=3mm tub. notvis	106×24×33×29×10 = 50g
784 ♀ +	vag op, pel. op.	121×24×29×30×9 = 53g
785 ♀ +	vag op pel op	113×27×31×32×10 = 52g skull only
786 ♀ +	vag op, pel. cl.	122×46×11×19×10 = 14.4g skull only
787 ♀ +	vag cl, pel op.	128×49×11×20×11 = 14.5g skull only
788 ♀ +	vag op, pel. notched	128×55×12×20×11 = 15.5g skull only
789 ♀ +	vag cl., pel. cl.	123×45×11×21×13 = 14g skull only
790 ♂	scrotal t=10 tub. not vis. su	96×36×10×16×9 = 9.8g
791 ♂	scrotal t=9 tub. not vis su=3, swollen	94×38×10×16×9 = 7.5g
792 ♂	scrotal t=9 tub not vis, su=3, swollen	94×35×9×17×11 = 7.8g
793 ♀ +	vag. cl., pel. notched	98×40×11×17×11 = 8.9g
794 ♀ +	vag cl. pel. notched	93×32×10×13×3 = 11.9g
795		skull only

4 April

300 km NW Villa Hayes by rd. Rio Verde, Dpto. Pte. Hayes, Paraguay

6 April

796		lower jaw only

470 km NW Villa Hayes by rd. Dpto. Boqueron, Paraguay

797 ♀ +	scrotal t=6	[79+]×[20+]×20×20 = 85g
798 ♂		344×183×31×26 = 100g
799 ♂		278×156×30×23 = 53g

Myers. Phil 1973

Catalogue

460 km NW Villa Hayes by rd. Depto. Boqueron, Paraguay

7 April

800 ♂ scrotzl t=5 — 205×104×13×20 = 19.5g

801 ♂ vasc. pel. notched — 192×74×18×[0+] = 48g

802 ♀ — 284×153×30×24 = 59g skeleton

803 — 287×156×26×[0+] = 58g

804 ♂ abd. t=4 — 187×84×25×20 = 39g

805 — ~~98×~~

8 April

806 ♂ abd T=3 — 98×0×27×17 = 26g

807 ♀ vasc. pel. cl pres, 1 left, swell = 8mm 4 scars rt, 2 left — 109×0×39×22 = 202g

808 ♂ scrotzl T=7 — 194×70×24×20 = 40g

809 ♀ vasc. pel. cl. 1 scar rt., 2 left. — 278×152×31×25 = 52g

810 ♂ abd T=5 — 304×175×31×24 = 75g

811 ♀ vasc. pel. notched — 286×158×30×24 = 55g

812 ♀ vasc. pel. cl. 1 scar left, 3 rt. — 264×152×28×24 = 49g

813 ♀ vasc. pel. cl. — 247×133×28×24 = 39g skull only

814 ♀ vasc. pel. op. cl rt. — 91×0×18×21×12 = 43g

815 ♂ abd. t=5 tub not vis su=1 — 121×28×32×34×13 = 66g

816 ♀ vasc op pel. op lact. cl gl — 120×24×28×33×11 = 49g

817 ♀ vasc op pel. op. — 116×21×30×29×10 = 50g

818 ♀ vasc op pel op. lact. — 114×29×31×32×10 = 52g

819 ♀ vasc op pel op lact. — 111×24×27×30×8 = 53g

820 ♀ vasc op. pel op. lact. — 84×39×8×15×8 = 4.5g

821 ♂ scrotal T=3 — ~~79×~~ 79×27×7×12×3 = 4.9g skull only

822

Recoleta, Asuncion, Paraguay

11 April

823

824

Myers
Phil
1973

Catalogue

460 km NW Villa Hayes by rd., Dept. Boqueron Paraguay

(cap't 8 April) 825 ♀ vagd, pel d, 4 scabs rt — +chromosomes [222+] x [108+] x 29 x 25 = 64.9 g

15 April 826 ♀ vagd, pel d — +chromosomes [238+] x [118+] x 29 x 23 = 45.9 g

Recoleta, Asuncion, Paraguay

15 April 827 ♀ vagop, pelvot. — skull only 132 x 57 x 13 x 19 x 13 = 12.5 g

460 km NW Villa Hayes by rd., Dept. Boqueron Paraguay

(cap't 9 April) 17 April 828 ♀ vagd pel d — +chromosomes 274 x 148 x 32 x 25 = 49.9 g

829 ♀ vagd pel d — +chromosomes 206 x 91 x 24 x 21 = 36.9 g

Recoleta, Asuncion, Paraguay

17 April 830

19 April 831 ♂ serotal t=6 tub. notuis sv=3, swollen — preserved in formalin 126 x 46 x 10 x 20 x 10 = 11.5 g

20 April 832 ♀ vag d. pel. op. — 136 x 53 x 11 x 21 x 12 = 17.5 g

833 ♂ abd. t=6 — 120 x 50 x 9 x 19 x 11 = 11.5 g

834 ♂ T=4 sv=6 scroral — pres. in formalin 118 x 50 x 10 x 19 x 10 = 10.5 g

835 ♂ — 107 x 43 x 7 x 14 x 9 = 7 g

4 km E SE Asuncion Paraguay

22 April 836 ♂ T=4 sv=4 scrotal — formalin 96 x 36 x 10 x 13 x 7 = 6 g

837 ♂ abd. — 97 x 38 x 9 x 15 x 9 = 6.5 g

Villa Mora, Asuncion, Paraguay

23 April 838 ♀ vag d., pel. notched t=4, sv=2 scrotal — 92 x 30 x 8 x 16 x 12 = 8.5 g

24 April 839 ♂ — skull only 83 x 30 x 10 x 15 x 9 =

Recoleta, Asuncion, Paraguay

27 April 840 ♀ vag d. pel notched

841 ♀ vag d., pel notched cut cl. left, 1 sem M, 1 f. — 86 x 32 x 9 x 15 x 10 = 7 g; 127 x 49 x 10 x 21 x 11 = 15.5 g

20 km NNE Encarnacion by rd., Dept. Itapúa, Paraguay

29 April 842 ♂ T=4, abd — Carolli — 60 x 0 x 13 x 24 x 10 = 15.5 g

843

Meyers
Phil
1973

Catalogued

275 km NW Villa Hayes by rd., Dept Pte. Hayes, Paraguay

11 May

844 ♀ vag. cl. pel not. 96×40×9×15×9=6.5g
845 ♀ vag cl. pel not. lac. 91×40×9×15×8=6.5g
846 ♂ scrotal T=8 SV=3 84×34×8×12×7=6.5g
847 ♀ vag cl. pel. not. 84×30×8×16×8=6g
848 ♀ vag cl, pel not. lac 87×34×9×16×8=6g
849 ♂ scrotal T=10 SV=3 87×34×8×15×8=6.5g
850 ♂ abd T=5 SV=2 79×32×8×16×9=6g
851 ♀ vag cl, pel not. 91×37×9×16×9=6.5g
852 ♂ scrotal T=10 SV=3 90×36×8×15×8=6g
853 ♂ scrotal T=7 SV=2 86×32×9×16×8=5.5g
854 ♀ vag cl pel not 86×34×9×15×9=5.5g
855 ♀ vag cl pel not 86×33×10×15×8=6g
856 ♂ scrotal T=10 SV=3 85×34×8×15×7=6g
857 ♀ vag cl. pel. cl. 85×35×9×14×6=5½g
858 ♀ vag. cl. pel. not. 87×33×9×14×7=6.5g
859 ♀ vag cl. pel. not. 89×36×8×15×9=5.5g
860 ♀ vag cl., pel not, lac. 80×32×8×15×8=5.5g
861 ♀ vag cl, pel not, lac 78×32×7×13×6=5.5g
862 ♂ abd T=3 SV=3 80×33×7×14×9=5.5g

320 km NW Villa Hayes by rd., Dept. Boqueron, Paraguay

13 May

863 ♀ vag cl, pel not 121×39×11×18×14=18.5g

Rio Verde, 300 km NW Villa Hayes by rd. Dept Boqueron, Paraguay

14 May

864 ♂ abd T= skeletal 115×25×32×33×11=67.9g
865 ♂ scrotal T=8 88×32×8×17×11=57.9g

Myers
Phil
1973

Catalogue

Río Verde, 300km NW Villa Hayes by rd. Dept. Boqueron, Paraguay

14 May
866 Depair — skull only
867 lost — skull only
868 lost — skull only
869 ♂ abd T=6 SV=1 — 202×123×25×16 = 15.5g
870 ♀ vag ♂, pel ♂ — 164×66×20×14 = 20.9
871 ♀ vag ♂, pel ♂ — 254×142×30×23 = 41.9
872 ♀ vag ♂, pel ♂ — 190×72×24×19 = 28.9
15 May
873 ♂ abd T=11 SV=4 — 194×82×23×18 = 45.9
874 ♀ vag ♂. pel not 3 CL left 3 CL rt — 191×70×23×18 = 31.9
875 ♂ abd T=7 — 158×68×21×17 = 25.9
876 ♂ abd T=6 SV=4 — skull only 114×51×9×19×11 = 9.9

345km NW Villa Hayes by road, Depto. Boqueron, Paraguay
16 May
8770 ♂ t=30mm — 851 ~~×~~ 76×244×95
8780 ♂ t=15 — 927 ~~×~~ 381×130×138

Rio Verde 300 km NW Villa Hayes by rd, Dept. Boqueron, Paraguay
capt'd 15 May, killed 18 May
8790 ♂ t=9mm, abd. tub. not vis SV=4 — chromosomes 187×87×20×18 = 32g + chromosomes 193×83×25×17 = 38g
880 ♀ vag ♂ pel not.

Recoleta Asunción Paraguay
19 May
881 ♀ vag ♂ pel not — skull only 133×53×10×21×13 = 15.9
882
883
20 May
882 ♂ scrotal — skull only 121×50×10×18×12 = 11.9

Rio Verde 300 km NW Villa Hayes by rd. Dept. Boqueron Paraguay
Cap'd 15 May, killed 21 May
883 ♂ abd SV=7 T=8 Tub not vis — + chromosomes 168×75×19×17 = 24.5g
884 ♂ abd T=9 SV=4 Tub not vis — + chromosomes 235×136×24×17 = 21.9

Myers
phil
1973

Catalogue

Rio Verde, 300 km NW Villa Hayes, rd., Dept Boqueron, Paraguay

capt 15 May
killed 22 May
885 ♂ scrotal T=5 — 212×77×20×23=49.9

capt 15 May
killed 23 May
886 ♀ vag op pel not (gave birth 3 young in cage) — 240×136×23×18=25.5g

Salto de Piraretá 10 km S Piribebuy, Depto. Cordillera, Paraguay

25 May
887 ♀ vag op, pel. sl. notched — 121×51×10×21×11 = 13g
888 ♀ vag op., pel notched, scar rt. — 129×~~54~~ 52 skull only ×11×21×12 = 15g
889 ♀ vag op., pel. cl. — 124×49×10×30×11 = 14g skull only
890 ♀ vag op. pel. op., CENT — 135×~~46~~ 49 ×13×19×6 = 34g
891 ♀ vag op. pel. d. — 131×~~53~~ 49 ×13×19×5 = 30g
892 ♂ abd. t=7 tub. vis — 140×42×12×18×5 = 42g
follicles visible + chromosomes

27 May
893 ♀ — 614×343×62×28 = 483g

Recoleta Asuncion Paraguay

31 May
894 ♀ vag cl, pel not. — 97×36×9×16×11 = 8.9

5 June
~~895~~ 4 km ESE Asuncion, Paraguay
895 ♀ vag cl. pel. notched — 89×33×10×17×10 = 79
896 ♂ scrotal t=~~8~~, tubules vis., sv=4 — ~~98×34×12×19×12~~ 5 98×39×8×17×10 = ~~100×41×10×19×12~~ = 9.5g
897 ♂ scrotal t=9, tub. vis., sv=4 — 96×38×9×16×8 = ~~98×40×11×18×10~~ = 8.5g
898 ♂ scrotal t=9. — 92×34×9×16×10 = ~~94×36×11×18×12~~ = 9.5g skull only
899 ♂ vas t=3, sv<1, tub. not vis — 64×0×13×18×8 = 17.5g skull only
900 ♀ + vag op pel. op — 109×0×18×27×10 = 81g
901 ♀ + ~~scr~~ abd t=10 tub vis — 76×0×13×22×10 = 25g + chromosomes
902 ♂ abd t=10 sv=5 — 105×0×18×25×11 = 67g + chromosomes
903 ♂ — 125×42×11×21×6 = 449g
~~904 ♀~~ + ~~vag op. pel op.~~ — 71×0×14×21×8 = 24g

Myers,
Phil
1973

Catalogue

Ruta 1, Asuncion, Paraguay

6 June	904 ♀	vag op pel op	skull only 71×0×14×21×8 = 24 g.
	905 ♀	vag op. pel op	skull only 103×0×21×27×11 = 69 g
	906 ♀	vag cl., pel. notched	97×35×9×15×6 = 9 g

275 km NW Villa Hayes by rd. Depto. Pte. Hayes, Paraguay

vag op pel. cl., plug? Urt, left swelling = 1mm

10 June	907 ♀	scrotal t=4 sv=4 tub not vis	84×29×9×16×9 = 4.5 g
	908 ♂	abdominal t=5 sv=1 tub. not vis.	82×33×7×16×9 = 4. g
	909 ♂	vag cl., pel. notched	91×37×10×16×9 = 6. g
	910 ♀	vag cl pel. cl	85×33×9×15×8 = 6 g
	911 ♀	vag cl. pel notched	86×34×9×15×8 = 6.4 g
	912 ♀	vag cl. pel. notched	81×34×8×14×8 = 4. g
	913 ♀	vag cl., pel. notched	83×36×8×15×8 = 5.4 g
	914 ♀	abd t=4 sv=1 tub. not vis	85×35×8×16×9 = 4.5 g
	915 ♂	scrotal t=8 sv=5 v. swollen tub. vis.	86×37×9×16×8 = 5.5 g
	916 ♂	scrotal t=8, sv=3, tub. vis.	85×36×9×16×9 = 6.5 g
	917 ♂	scrotal t=7, sv=5 v. swollen, tub. vis.	87×34×9×16×10 = 6.5 g
	918 ♂	vag cl. pel notched	86×33×9×16×9 = 6.5 g
	919 ♀	vag cl. pel. notched	84×33×9×15×8 = 6 g
	920 ♀	vag cl. pel. notched	86×36×8×15×9 = 4.5 g
	921 ♀	vag cl. pel. op	84×34×9×16×10 = 4.5 g.
	922 ♀	abd. t=4mm sv=3, very swollen	84×35×8×11×7 = 5 g
	923 ♂	vag op. pel. cl.	80×32×8×14×9 = 3.5 g
	924 ♀	vag op, pel. notched	84×35×9×15×9 = 4.5 g
	925 ♀	vag op., pel. notched	85×36×8×15×9 = 4.5 g
	926 ♀	scrotal t=3 sv=3. swollen	85×34×8×12×9 = 5 g
	927 ♂	scrotal t=3 sv=1	82×35×8×15×9 = 4.5
	928 ♂		80×32×8×15×8 = 4.0

Myers, Phil
1973

Catalogue

275 km NW Villa Hayes by road, Depto Pte. Hayes, Paraguay

11 June	929	♂	abd. T=3, SV=1	82×34×8×14×8 = 4g
	930	♀	vag cl. pel. notched	89×35×9×15×8 = 6g
	931	♀	vag cl. pel. notched	93×36×9×15×8 = 6g
	932	♀	vag cl. pel. notched	89×36×9×15×7 = 6.5g
	933	♀	vag cl. pel. notched	85×33×9×15×9 = 5.5g
	934	♀	vag cl. pel cl	88×35×9×15×8 = 6g
	935	♀	vag cl. pel. notched	83×34×9×16×8 = 6g
	936	♀		89×36×9×14×7 = 6.5g
	937			skull only

Pecoleta, Asunción Paraguay

			scrotal, T=22, Tub. vis, SV=10	
19 June	938	♂		+ chromosomes 36 2×180×42×23 = 155g
			scrotal, T=25 Tub. vis, SV=10	
20 June	939	♂		+ chromosomes 329×165×40×22 = 187.9g
	940			

25 km S Pto. Iguazu by rd, Dept. Misiones, Argentina

30 June	941			

20 km N Altos by rd. Dept. Cordillera, Paraguay

			vag op. pel. notched	
5 July	942	♀	abd. scrotal t=4, SV=3	97×41×10×17×12 = 8g
	943	♂	vag op. pel. notched	skull only 122×55×10×20×12 = 10g
	944	♀	scrotal t=5 SV=5	130×55×10×21×14 = 15g
	945	♂	abd. t=5 SV=3	skull only 120×53×10×20×13 = 12g
	946	♂	scrotal t=9 SV=2	76×20×7×14×4 = 6g
	947	♂	scrotal t=8 tub. vis SV=7	150×49×13×18×5 = 47g
	948	♂	vag op, pel. notched, follicles vis.	125×48×12×22×7 = 39g
	949	♀	vag op pel. notched follicles vis. rt.	118×37×11×23×6 = 33g
	950	♀		132×48×12×17×5 = 30g

Myers. Phil 1973

Catalog

20 km N Altos by rd. Depto. Cordillera, Paraguay

6 July

951 ♂ rabbit — 310 × 25 × 80 × 57 =

952 ♂ scrotal T=7, Tub. vis, SU=2 — 95 × 39 × 9 × 17 × 10 = 7.5 g

953 ♂ scrotal T=7, T-b. not vis, SU=3 — 131 × 54 × 12 × 19 × 5 = 23 g

7 July

954 ♀ — 618 × 302 × 44 × 57

955 ♀ vag op pel op Lact. Preg left ovary = 1mm — 120 × 26 × 30 × 30 × 9 = 63 g

956 ♀ vag op pel op preg right ovary = 2mm — 120 × 29 × 29 × 31 × 9 = 59 g

957 ♂ abd. t=4 SU=2, tub not vis — 118 × 59 × 10 × 20 × 11 = 11 g

958 ♀ vag op pel cl, scrotal t=5 SU=2 tub not vis — 106 × 45 × 9 × 13 × 7 = 8.5 g

959 ♂ — 119 × 51 × 10 × 19 × 11 = 11 g

960 ♀ vag op pel cl. — 107 × 44 × 9 × 16 × 11 = 9 g

961 ♀ vag op pel. op — 99 × 39 × 9 × 16 × 9 = 8.5 g

962 ♂ abd. t=3, SU=1 — 126 × 44 × 13 × 19 × 6 = 20 g

2 km S Tobati by road, Depto. Cordillera, Paraguay

9 July

963 ♂ abd. t=3, SU=1 — 114 × 44 × 11 × 21 × 4 = 14 g

964 ♂ abd. T=2 SU=1 — 115 × 43 × 11 × 21 × 4 = 14 g

965 ♂ abd. T=3 SU=1 — 111 × 44 × 11 × 21 × 4 = 15 g

966 ♂ abd. T=4 SU=2 — 109 × 43 × 10 × 22 × 4 = 14 g

20 km N. Altos by rd. Depto Cordillera, Paraguay

Cap' 6 July killed 10 July

967 ♀ vag cl, pel cl, numerous CL ✱ — 384 × 208 × 33 × 24 = 100 g + chromosomes

Cap'T 6 July killed 14 July

968 ♂ scrotal, T=10 SU=7, Tub not vis. — 300 × 157 × 35 × 23 = 75 g + chromosomes

killed 14 July

969 ♀ vagi, pel cl — 269 × 145 × 32 × 20 = 40 g

17 km E of Luque by rd, Dept. Central, Paraguay

20 July

970 ? — sl. fat. 12.5 gms, sk partly ossified

1 km S Tobari by rd, Dept. Cordillera, Paraguay

22 July

971 ♀ ovary = 5 mm — 16. g, med fat, skull ½ oss.

Vargas
Phil
1973

Catalogue

1 km S Tobati hwy rd. Dept Cordillera, Paraguay

22 July 972 ♀

17 km E Jugue hwy rd. Dept. Central Paraguay

23 July 973 ♀ ovary = 4 mm — 14.5 g, med fat, sk. oss.

974 ♀ ovary = 6 mm — 12 g, med fat, sk ¼ oss.

275 km NW Villa Hayes hwy rd. Depto. Pte. Hayes, Paraguay

25 July 975 ♀ vag op. pel. notched; scrotal t=4mm tub vis. — 86×37×8×15×8 = 4.5 g

976 ♂ vag cl. pel. notched CL rt uterus swollen, vascular — 82×38×8×15×9 = 4.5 g preserved in formalin

26 July 977 ♀ vag cl. pel. cl., CL rt, uterus vascular — 89×42×8×16×10 = 5 g preserved in formalin

978 ♀ vag op pel. notched, ut med vascular — 84×36×8×16×8 = 4 g preserved in formalin

979 ♀ scrotal t=4, tub vis sv=3, globose — 82×32×8×15×8 = 4.5 g preserved in formalin

980 ♂ scrotal t=2 tub not vis, sv=1 — 80×32×8×16×10 = 4.5 g preserved in formalin

981 ♂ vag cl, pel. notched, uterus med — 76×31×8×14×8 = 3.5 g preserved in formalin

982 ♀ vag cl. pel. notched, uterus small — 85×38×8×15×9 = 5 g preserved in formalin

983 ♀ vag cl. pel. notched, ut. med. — 83×35×8×15×9 = 4.5 g

984 ♀ vag cl. pel. op preg CL left swell = 4mm — 83×37×8×[10+]×9 = 5 g preserved in formaldehyde

985 ♀ vag op pel. notched preg CL rt swell = 4mm — 87×43×8×[11+]×8 = 4.5 g

986 ♀ scrotal t=4, sv=4, globose tub not vis — 87×38×8×14×9 = 5 g preserved in formalin

987 ♂ scrotal t=4, sv=5, globose tub not vis — 82×36×8×16×9 = 4.5 g preserved in formalin

988 ♂ vag. op pel. notched, preg swell = 3 — 82×36×8×15×9 = 4.5 g ~~preserved in formalin~~

989 ♀ vag op. pel. op, ut. small — 86×42×9×[17]×9 = 4.5 g

990 ♀ vag cl. pel. op, preg. swell = 2 — 78×32×8×[12+]×8 = 4 g

991 ♀ vag cl. pel notched, ut. med — 81×33×8×15×10 = 4.5 g preserved in formalin

992 ♀ scrotal t=4, sv=2, tub vis. — 87×35×9×16×8 = 6.5 g preserved in formalin

993 ♂ scrotal t=5, sv=3, swollen, tub. vis. — 80×35×8×15×8 = 4 g preserved in formalin

994 ♂ vag cl, pel notched, CL left?, ut. enl. — 83×37×8×15×8 = 4 g preserved in formalin

995 ♀ vag cl. pel notched — 89×34×9×16×10 = 6 g preserved in formalin

996 ♀ — 91×36×8×16×9 = 6.5 g

Myers, Phil 1973

Catalogue

275km NW Villa Hayes by rd. Depto. Pte. Hayes, Paraguay

26 July	997 ♀	vag cl. Rel notched	preserved in formalin 87×37×9×15×8 = 6.5 g
	998 ♀	vag cl., pel cl., ut. med. vascular	preserved in formalin 86×40×8×15×9 = 6.5 g
	999 ♀	vag cl. pel cl., ut sl. enl.	86×37×8×16×9 = 5.5 g
	1000 ♀	vag op, pel. notched	80×33×8×15×8 = 6.5 g
	1001 ♀	vag op pel. cl.	99×37×10×14×5 = 12.5 g
	1002 ♀	vag op pel. cl	99×34×9×14×5 = 12.5 g
	1003 ♀	scrotal t=10 tub. vis	97×39×10×14×4 = 14 g
	1004 ♂	scrotal t=10, tub vis sv=4 ~~swollen~~	103×37×10×19×4 = 16.5 g
	1005 ♂	scrotal t=8, tub. vis sv=1	101×39×10×19×4 = 19 g
	1006 ♂	scrotal t=9 tub. vis. sv=1	105×40×9×20×5 = 19 g
	1007 ♂	scrotal t=10 tub vis sv=1	102×39×9×21×4 = 15 g
	1008 ♂	vag cl., pel. notched, prog cl. ~~swollen~~ = 4	102×38×10×21×4 = 17 g
	1009 ♀	vag cl., pel. notched	78×33×8×14×7 = 4 g
	1010 ♀	scrotal t=4, tub vis, sv=3, very swollen	86×40×8×15×8 = 4.5 g
	1011 ♂	vag op pel. cl	83×35×7×15×9 = 4 g preserved in formalin
	1012 ♀	vag op pel. notched	90×39×10×16×9 = 6 g preserved in formalin
	1013 ♀	scrotal t=7 sv=5. v. swollen, tub. vis	87×35×8×13×8 = 5.5 g
	1014 ♂	t=9 scrotal, tub. vis., sv=5. very swollen	86×36×10×13×8 = 6 g
	1015 ♂	scrotal t=9 tub. vis., sv=4. very swollen	92×39×9×15×8 = 7.5 g preserved in formalin
27 July	1016 ♂	vag op. pel notched	85×35×8×16×9 = 6.5 g
	1017 ♀	vag cl., pel. op, ut. swollen, vascular	87×36×10×16×9 = 6.5 g
	1018 ♀	vag cl., pel. notched	89×40×9×15×10 = 6.5 g
	1019 ♀		90×39×9×15×9 = 6.5 g

290 km NW Villa Hayes by rd. Depto. Pte. Hayes Paraguay

28 July	1020 ♂	scrotal t=9, tub. vis, sv=4, very swollen	86×37×9×15×9 = 6.5 g

Myers, Phil 1973

Catalogue

275 km NW Villa Hayes by rd. Depto. Pte. Hayes, Paraguay

29 July 1021 ♂ M. a. scrotal t=8, tub. n.v., sv=4. very swollen — 87×35×9×14×9 = 7.5g

380 km NW Villa Hayes by rd. Dept Boqueron, Paraguay

1022 ♀ vag cl, pel not. Myotis — 346×136×47×33

420 km NW Villa Hayes by rd., Dept Boqueron, Paraguay

1023 ♀ vagc, pel not. Glossophaga — 190×0×37×[20] = 211g.

1024 ♂ scrotal T=17 Glossophaga — 170×0×38×20 = 186g.

1025 ♂ scrotal t=7mm, tub not vis sv=2 Noctilio leporinus — 129×29×33×31×10 = 58g

474 km NW Villa Hayes by rd., Dept Boqueron, Paraguay

30 July 1026 snake t=32mm — skeleton only

1027 ♂ Tatu bola — 297×74×41×28

Killed 2 August, Cap'd 29 July — 420 km NW Villa Hayes by rd., Dept. Boqueron, Paraguay

1028 ♂ T=8, Tub not vis., sv=8 — + chromosomes 293×161×30×27 = 57g

Killed 2 August, Cap'd 29 July — 1029 ♀ vagc, pel cl — + chromosomes 289×155×28×25 = 54g

Killed 3 Aug, Cap'd 29 July — 1030 ♂ ~~vagc~~, ~~pel cl~~ scrotal T=9, sv=4, Tub not vis — + chromosomes 203×93×25×19 = 43g

1031 ♀ vagc, pel cl — + chromosomes 192×87×24×18 = 30g

1032 ♀ vagc, pel cl, 2 CL rt, 2 CL left — + chromosomes 208×85×25×18 = 34g

474 km NW Villa Hayes by rd. Dept. Boqueron, Paraguay

Killed 4 Aug, Cap'd 30 July — 1033 ♂ abd T=10 SV=10, Tub not vis' — + chromosomes 278×160×30×28 = 48g

1034 ♂ abd T=7 SV=8 Tub not vis — + chromosomes 290×164×28×23 = 57g

1035 ♀ vagc, pel cl — + chromosomes 305×177×30×24 = 53g

4 km ESE Asunción, Paraguay

6 August 1036 ♀ vagc pel. cl scrotal ~~T=8~~ T=4, sv=2 — pres. in Formalin 97×37×8×15×10 = 6.5g

1037 ♂ — preserved in formalin 97×42×9×17×12 = 9.5g

275 km NW Villa Hayes by rd., Depto. Pte. Hayes, Paraguay

17 ~~T~~ August 1038 ♂ scrotal t=11, sv=2, tub. not vis. — 153×53×14×29×6 = 47g

1039 ♂ scrotal t=4, sv=2, tub. not vis. — skull only 115×49×10×18×10 = 9g

1040 ♂ scrotal t=4 sv=3 tub. not vis — skull only 121×53×9×17×10 = 9.5g

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Phil
1973

Catalogue

275 km NW Villa Hayes by rd. Depto. Pte. Hayes, Paraguay

17 Aug.	1041 ♂	t=4 scrotal, su=2, tub. not vis	113×49×9×18×9 = 9.5g
	1042 ♂	t=4 scrotal, su=2, tub. not vis	114×49×10×19×10 = 9.5g
	1043 ♂	t=4 scrotal, su=4, tub not vis	126×53×9×19×10 = 12.5g
	1044 ♂	t=4 scrotal. su=3. tub not vis	118×48×10×20×10 = 13.5g
	1045 ♀	lac. vag op pel. op CL ✗	90×0×19×23×11 = 41g
	1046 ♀	vag op pel. notched	131×52×10×19×10 = 11.5g
	1047 ♀	vag op pel. notched	127×50×10×20×12 = 12.5g
	1048 ♂	scrotal t:4 su 4, tub not vis	119×49×10×19×10 = 10g
	1049 ♂	scrotal t:4 su=3	119×47×10×20×12 = 11g
	1050 ♀	vag op, pel not.	126×50×10×18×9 = 11.5g
	1051 ♀	vag cl, pel cl	129×55×10 ×18×11 = 12.9
	1052 ♀	vag cl, pel cl CL left?	124×53×10 ×20×13 = 11.5g
	1053 ♂	scrotal T:4 SU=3 Tub. not vis	115×49×10 ×18×11 = 9.9
	1054 ♀	vag op pel notched	127×55×10×19×11 = 11.5g
	1055 ♀	vag op pel. notched	130×53×10×20×12 = 13.5g
	1056 ♀	vag op pel. notched	124×52×10×20×12 = 11g
	1057 ♂	scrotal T=4 tub not vis SU=2	Skull only 114×50×11×18 ?10 = 8.5g
	1058 ♀	vag op, pel op, preg swell. = 8 CL left.	99×0×19×26×10 = 65.9
	1059 ♀	vag op, pel cl	142×52×13 ×26×5 = 30.9
	1060 ♀	vag op pel op CL left preg swell ~6 mm	99×0×16×26×13 = 64g
	1061 ♂	abd. T=3 tub not vis SU=1	84×0×16×25×10 = 39g
	1062 ♂	scrotal T=4 Tub not vis SU=3	Skull only 122×53×11×17×9 = 11.9
	1063 ♀	vag cl pel cl	91×38×8×16×9 = 7.5g
	1064 ♀	vag op pel. notched	95×34×9×19×4 = 12.5g
	1065 ♀	vag op pel op	96×33×10×21×4 = 14g
	1066 ♀	vag op pel notched	103×36×9×15×4 = 12.5g

Myers
Phil
1973

Catalogue

290 km NW Villa Hayes by rd. Depto Pte. Hayes, Paraguay

19 Aug.

1067 ♂ scrotal t: 4, two not viz, SD=4, swollen — 80×35×8×15×8 = 5.5g
vag cl, pel. cl., preg l eft. swell. = 3mm

1068 ♀ — 80×33×8×15×8 = 4.5g
vag cl, pel. cl. preg CR=7mm

1069 ♀ — 82×35×8×16×9 = 5.5g
vag. op, pel. op preg Cl eft? CR=8mm

1070 ♀ — 83×34×8×16×9 = 5g
vag cl, pel. cl preg l rt swell = 5mm

1071 ♀ — 77×32×8×15×8 = 5g
vag cl pel. cl., Cl eft. at vascular, swollen

1072 ♀ — 87×37×9×16×8 = 5.5g
vag cl pel cl., Cl eft?, at vascular, swollen

1073 ♀ — 86×36×8×15×9 = 5g
vag cl, pel notched, preg l rt. swell = 4mm

1074 ♀ — 82×34×8×15×9 = 5g
vag cl. pel notched, preg. l rt swell = 7mm

1075 ♀ — 84×37×8×14×8 = 5g
vag cl, pel cl, preg. l rt CR = 5mm

1076 ♀ — 83×35×8×14×8 = 5g
vag cl., pel notched, preg l rt CR = 13mm

1077 ♀ — 89×37×8×15×8 = 6.5g

225 km N (e) Villa Hayes by rd. Dept. Pte. Hayes, Paraguay

pel cl. follicles large, mest = 3mm

1078 ♀ — 945×313×148×71
skull only

1079 ♀ pel cl — 910×280×136×70

scrotal T = 30

1080 ♂ ♂ — 890×330×143×55
skull only

1081 ♀ — 915×351×148×75
skull & baculum

1082 ♂ — 935×345×135×75

290 km NW Villa Hayes by rd, Dept. Pte. Hayes, Paraguay

1083

320 km NW Villa Hayes by rd, Dept. Boqueron, Paraguay

vag op., pel. notched preg swell = 9mm

22 Aug.

1084 ♀ — 84×36×9×14×8 = 4.5g
vag op. pel-cl. preg swell = 4 Cl eft?

1085 ♀ — 86×33×9×15×9 = 7g
vag cl pel notched preg swell = 9 Cl rt

1086 ♀ — 87×34×9×16×9 = 7g
scrotal t = 9, two viz., SD = 4mm

1087 ♂ — 87×33×10×14×8 = 7.5g
vag cl pel notched preg swell = 3mm

1088 ♀ — 85×33×9×16×11 = 7g
vag cl pel cl. preg swell = 3mm rt

1089 ♀ — 85×37×9×15×9 = 7g

Myers. Phil 1973

Catalogue

320 km NW Villa Hays by rd. Depto. Boqueron, Paraguay

22 Aug.

10900 ♀ vag cl pel op, swell = 4mm ~~Preg, swell = 4mm~~ 88 x 33 x 10 x 16 x 8 = 7g

10910 ♀ vag cl pel notched preg swell = 4mm rt, 86 x 34 x 9 x 16 x 8 = 7g

10920 ♀ vag op pel notched preg rt swell = 4mm 85 x 38 x 9 x 15 x 8 = 6.5g

10930 ♀ vag cl pel op preg rt? swell = 6mm 84 x 37 x 9 x 14 x 8 = 6g

10940 ♀ vag cl pel notched preg rt swell = 5mm 87 x 36 x 10 x 16 x 9 = 6.5g

10950 ♀ vag cl pel notched preg rt? swell = 5mm 87 x 38 x 9 x 15 x 8 = 7g

10960 ♀ vag cl. pel notched preg ~~cl~~ rt swell = 4mm 88 x 40 x 9 x 16 x 8 = 7g

24 Aug. 290 km NW Villa Hays by rd. Depto. Pte. Hays, Paraguay

10970 ♂ scrotal t = 8 tub vis, SU = 4 skull only 87 x 34 x 9 x 14 x 8 = 7g
M. albigena

10980 ♂ scrotal t = 6 tub not vis SU = 3 skull only 89 x 33 x 10 x 15 x 8 = 7.5g

10990 ♀ vag cl pel cl preg swell = 3 cl rt 90 x 36 x 10 x 16 x 9 = 7.5g

11000 ♀ vag cl pel cl preg swell = 2mm 85 x 35 x 9 x 15 x 8 = [5.5]

11010 ♀ vag cl pel op Utsl. swollen 86 x 35 x 10 x 15 x 8 = [5.5]

11020 ♀ vag cl pel notched preg rt swell = 2 85 x 36 x 10 x 15 x 9 = [5.5]

11030 ♀ vag cl pel cl preg rt swell = 4 88 x 36 x 9 x 15 x 8 = [5.5]

11040 ♀ vag cl pel notched preg swell = 3 rt. 87 x 33 x 9 x 16 x 8 = [5.5]

11050 ♀ vag cl, pel not, follen larged 312 x 145 x 37 x 22 = 96g

130 km NW Villa Hayes by rd. - Dept. President Hayes, Paraguay

11060 ♀ Procyon cancrivorus 960 x 360 x 140 x 56

226 km NW Villa Hayes by rd. - Dept. Pte. Hayes, Paraguay

11070 ♀ Tropidurus

1108 Tropidurus

300 km NW Villa Hays by rd. Depto. Boqueron, Paraguay

30 Aug.

11090 ♀ vag op pel op, preg swell = 9mm lft. cl lft 117 x 27 x 29 x 31 x 9 = 51g

11100 ♀ vag op pel op preg swell = 6 mm lft. cl lft 118 x 28 x 29 x 29 x 9 = 51g

11110 ♀ vag op pel op preg swell = 7mm rt cl rt 118 x 25 x 29 x 31 x 10 = 53g

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300 km NW Villa Hayes by rd. Depto. Boqueron Paraguay

30 Aug. 1112 ♀ vag sp pal sp preg at smear · 6 mm · CLM — 116×26×30×31×17 = 47 g

458 km NW Villa Hayes by rd. Depto. Boqueron, Paraguay

1 Sept. 1113 ♂ 26d. t: 17 mm, SV: 17 mm — 350×98×56×14 = 650 g

1114 ♀

2 Sept 1115

1116

466 km NW Villa Hayes by rd., Depto. Boqueron, Paraguay

1117

1118 — skl. 11 only

50 km E of km 320, Trans Chaco hwy, Depto. Boqueron, Paraguay

4 Sept 1119 — skl. 11 only

1120 — scrotal t=9, SV=5 tub vis. — skull only

1121 ♂ — scrotal t=8 tub vis. SV=4 — skull only 83×34×9 ×15×10=6.5g

1122 ♂ — scrotal T=9 Tub vis SV=3 — skull only 81×34×9 ×15×8=6.0g

1123 ♂ — vag cl plug pres preg swell=V — skull only 85×34×10×15×8=6.0g

1124 ♀ — scrotal T=9 SV=4 Tub. vis. — skull only 87×34×10×14×8=6.5g

1125 ♂ — scrotal T=7 tub. vis. SV=3 — skull only 85×34×9×15×9 =

1126 ♂ — scrotal T=8 Tub. vis. SV=3 — skull only 83×35×9×15×8 =

1127 ♂ — vag cl pal notched preg CRES — 83×33×9×14×8 =

1128 ♀ — vag cl pal notched — 83×33×10×15×8=

1129 ♀ — vag cl pal sp preg CR=16 — 82×32×8×15×9

1130 ♀ — 87×37×8×15×10

1131 — ~~930~~ 970 × 230 × 272 × 97 = =14,540 gms

3 Sept 425 km NW Villa Hayes by rd., Depto. Boqueron, Paraguay

1132 ♀ ovary 12×7 — 157 gms, med fat, sk 3/4 ossified

21 Sept. ~~327~~ km NW Villa Hayes by rd. Depto. ~~Boqueron~~ Pte. Hayes Paraguay

1133

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Catalogue

~~327~~ km NW Villa Hayes by rd. Depto. Pte Hayes, Paraguay

21 Sept.	1134	♀	vag op pel op, preg nt. CR=18mm — 85×34×8×13×8 = 5g
	1135	♀	vag op pel notched preg nt. CR=10mm — 82×34×8×14×8 = 4.5g
	1136	♀ +	vag op pel notched preg nt CR=7mm — 82×33×8×15×10 = 5g
	1137	♂	scrotal t=3, tub. not vis. SV=2mm — 81×32×8×15×9 = 4.5g

~~326~~ km NW Villa Hayes by rd. Depto. Pte. Hayes, Paraguay

	1138	♂	scrotal t=10 tub vis SV=5 swollen — ~~82~~ × 33×9×14×7 = 7g
	1139	♂	scrotal t=11 tub vis SV=3, swollen — 87×35×9×16×8 = 6.5g
	1140	♂ +	vag cl pel cl CR=7 preg nt — 88×34×8×14×8 = 6.5g
	1141	♀ +	vag op pel op, CR=18 — 81×~~42~~ 37 ×8×14×8 = 5.5g
	1142	♀ +	vag cl pel cl. preg nt CR=10 — 86×35×8×15×8 = 6.5
	1143	♂	scrotal t=10, tub. vis., SV=4 — 86×33×9×15×8 = 6g
	1144	♂	scrotal t=11, tub vis., SV=4 — 84×38×9×15×9 = 6g
	1145	♂	scrotal t=10 tub vis, SV=4 — 91×38×9×16×8 = 6.5g
	1146	♀ +	pel cl vag cl. preg nt swell=6mm — 89×36×9×15×8 = 5.5g
	1147	♀ +	vag op pel notched preg CR=18mm — 85×34×9×16×8 = 6g
	1148	♀ +	vag cl. pel notched preg nt CR=9mm — 88×36×10×16×9 = 5.5g
	1149	♀ +	vag cl. pel op. preg nt CR=14mm — 80×34×8×14×9 = 5g
	1150	♀ +	vag cl pel notched preg nt CR=7mm — 85×36×10×15×8 = 6g
	1151	♀ +	vag cl pel cl preg CR=11mm — 84×34×9×16×9 = 6.5g
	1152	♀ +	vag op pel op preg CR=19mm — 83×35×8×15×8 = 5.5g
	1153	♀ +	vag cl pel notched preg nt CR=8mm — 88×38×9×15×8 = 6g
	1154	♀	vag op, pel notched preg CR=8mm — 91×38×9×16×9 = 6g

~~#155~~ 275 km NW Villa Hayes by rd. Depto. Pte Hayes, Paraguay skull only

	1155		skull only

~~290~~ ~~295~~ km NW Villa Hayes by rd. Depto. Pte. Hayes, Paraguay
T=34 SV=12

23 Sept	1156	♂	820×315×130×70

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Catalogue

410km NW Villa Hayes Dept. Boqueron, Paraguay

24 Sept	1157 ♀		
	1158 ♂		
	1159		skull only
	1160 ♂	scrotal t=10 tub vis sv=13	235 × 131 × 24 × 17 = 30g
	1161 ♂	scrotal t=11 tub vis sv=12	236 × 124 × 25 × 20 = 50g
	1162 ♂	scrotal t=10, tub not vis sv=8	217 × 105 × 25 × 20 = 36 g
	1163 ♂	scrotal t=10, tub not vis sv=9	226 × 105 × 24 × 20 = 49g
	1164 ♂	scrotal t=9	240 × 126 × 13 × 23 = 30g
	1165 ♂	scrotal t=9	232 × 120 × 15 × 23 = 29g skeleton
	1166 ♀	vag cl, pel cl	210 × 78 × 18 × 23 = 43g
	1167 ♀	abd T=9 Tub. not. vis. sv=14	302 × 161 × 29 × 24 · 50g skull only
	1168 ♂	vag cl pel notched 4 scars rt., 4 scars lft.	201 × 80 × 25 × 20 = 47g skull only
	1169 ♀	scrotal T=11 SV=8 Tub. not vis.	[170] × [41+] × 24 × 16 = 40g skull only
	1170 ♂		199 × 73 × 23 × 16 = 35g

275 km NW Villa Hayes Dept. Boqueron Paraguay

25 Sept.	1171 ♀	vag cl, pel cl, cl lft	preserved in formalin 119 × 53 × 12 × 19 × 11 = 10.5g
	1172 ♀	vag cl, pel cl, cl lft	formalin 127 × 54 × 10 × 20 × 11 = 14.5g
	1173 ♀	vag op, pel not, cl rt, cl lft	formalin 129 × 54 × 10 × 21 × 13 = 16.5g
	1174 ♀	vag op, pel not, cl rt, cl lft	formalin 122 × 50 × 10 × 20 × 11 = 12.5g
	1175 ♀	vag op, pel not, preg 1R 2L swell = 4mm	formalin 132 × 56 × 10 × 20 × 12 = 16.5g
	1176 ♂	scrotal T=3 Tub. not vis. SV=2	formalin 120 × 52 × 12 × 18 × 12 = 12 g ·
	1177 ♂	scrotal T=3 Tub. not vis. SV=1	formalin 121 × 52 × 10 × 18 × 12 = 13g
	1178 ♂	scrotal T=3 Tub. not vis. SV=2	formalin 119 × 51 × 12 × 19 × 12 = 10.5g
	1179 ♂	scrotal T=3 Tub. not vis. SV=3	formalin 114 × 47 × 10 × 18 × 12 = 11.5g
	1180 ♂	scrotal T=3 Tub. not vis. SV=1	formalin 117 × 49 × 10 × 19 × 11 = 12.9g
	1181 ♂	t=40 pel. notched, preg 2rt, 2lft swelling = 3	850 × 550 × 225 × 80 =
	1182 ♀		108 × 50 × 10 × 9 × 6 = 8g

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Phil
1973

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275km NW Villa Hayes by car, Depto. Pte. Hayes, Paraguay

25 Sept.	1183 ♂	scrotal t=3, tub. not vis, su=2	skull only 118×57×10×17×10 = 10g
	1184 ♂	scrotal t=3 tub. not vis, su=3	skull only 121×52×8×18×10 = 10g
	1185 ♂	scrotal t=3 tub not vis su=2	skull only 119×58×10×20×11 = 10.5g
	1186 ♀ +	vag op, pel cl, ut swollen, vascular CL's present	skull only 130×53×11×17×10 = 12g
	1187 ♀ +	vag op, pel. notched ut slightly swollen	skull only 122×51×10×19×10 = 11g
	1188 ♀ +	vag op:, pel notched ut slightly swollen	skull only 124×53×9×19×11 = 11.5g
	1189 ♀ +	vag op pel cl	124×51×11×19×11 = 11g
	1190 ♀ +	vag cl pel notched	127×51×11×20×12 = 12.5g
	1191 ♀ +	vag op, pel cl, ut. swollen, vascular, CL present	126×52×10×19×12 = 11.5g
	1192 ♀ +	vag op. pel cl	124×53×10×19×12 = 12g skull only
	1193 ♀ +	vag op pel cl	124×55×10×19×12 = 12.5g skull only
	1194 ♀ +	scrotal t=3, tub not vis su=2	121×53×10×20×12 = 12.5g
	1195 ♂	scrotal t=3, tub not vis. su=2	118×51×10×19×12 = 12g skull only
	1196 ♂		120×55×11×18×10 = 10.5g
	1197 ♂	scrotal t=8, tub vis, su=4	93×34×8×15×8 = 6.5g
	1198 ♂	scrotal t=6, tub not vis, su=3	90×38×9×15×10 = 5g
	1199 ♀ +	vag cl pel cl preg int. 1 ft., CR: 6	96×40×9×16×9 = 7.5g
	1206 ♀ +	vag cl pel cl preg int; 2 ft CR=5	97×42×9×16×10 = 7g
	1201 ♀ +	vag cl pel cl preg int, 1 ft CR=5	96×37×9×17×10 = 6.5g
	1202 ♀ +	vag op pel notched preg int, swell=5	72×19×6×14×4 = 5.5g
	1203 ♀ +	vag op pel op preg, CR=27	119×28×30×33×12 = 59g
	1204 ♀ +	vag op pel op preg int CR=8	119×27×28×31×10 = 47g
	1205 ♀ +	vag op pel notched preg? swell int=3	146×50×14×27×5 = 32g
	1206 ♂	scrotal t=7 tub not vis	145×49×14×28×5 = 31g
	1207 ♂	scrotal t=7 tub not vis	149×52×14×28×5 = 36g
	1208 ♀ +	bag op pel notched preg int. swell=7	96×33×9×13×4 = 12.5g
	1209 ♀ +	vag op pel cl preg int. swell=10 CR	92×30×10×18×4 = 10.5g

Myers, Phil
1973

Catalogue

275 km NW Villa Hayes by rd. Depto. Pte. Hayes, Paraguay

25 Sept. 1210 ♀ vag op, pel obtcvd, preg 1st, CE=8 — 124×47×11×18×5 = 18g

227 km NW Villa Hayes by rd. Depto. Pte. Hayes, Paraguay

26 Sept. 1211 ♂ scrotal t=5, tub. not vis, sv=3 — 81×34×8×15×9 = 4g

1212 ♂ scrotal t=3, tub not vis, sv=4 — 81×33×9×14×8 = 4g

1213 ♂ scrotal t=3, tub not vis, sv=3 — 81×36×8×14×8 = 4g

1214 ♂ scrotal t=4, tub. not vis., sv=3 — 79×32×8×16×10 = 4g

Recoleta, Asuncion, Paraguay

20 Oct 1215 ♀ preg 1st, 14ft CR=14mm, pel op

28 Oct. 1216 ♀ vag cl pel op, preg 2nd, 2 ft CR=12 — 93×38×8×15×9 = 9g

1217 ♀ vag op pel op, preg 1st CR=14 — 111×48×9×13×8 = 11.5g

1218 ♀ — 106×40×10×13×4 = 13.5g

21 Nov. 226 km NW Villa Hayes by rd. Depto. Pte. Hayes, Paraguay

1219 ♀ vag cl, pel. not., lact., ut swollen=2 — 88×36×9×15×8 = 6.5g

1220 ♀ vag cl pel notched, lact. ut swollen nt=2, CL 4ft — 87×34×9×15×8 = 6.5g

1221 ♂ scrotal t=8, tub vis, SV=4. swollen — 86×35×9×14×8 = 5.5g

1222 ♂ scrotal t=9. tub vis, SV=4, swollen — 90×36×8×16×8 = 6.0g

1223 ♀ vag cl, pel. notched. lact., preg CE=10 — 81×33×8×14×8 = 5.0g

1224 ♀ vag cl, pel notched, nipples end. worn, preg swell=4 mm — 92×36×9×16×9 = 7.0g

1225 ♀ vag cl. pel notched, lact. — 89×35×9×16×8 = 6.5g

1226 ♀ vag cl pel cl lact. — 92×39×9×16×8 = 6.0g

1227 ♀ scrotal t=8, tub. vis, SV=5, swollen — 86×35×8×15×9 = 6.0g

1228 ♂ scrotal t=9 tub vis SV=3 — 88×35×9×15×7 = 6.0g

1229 ♂ scrotal t=7 tub vis SV=4, swollen — 80×27×10×15×8 = 5.5g

1230 ♂ vag cl pel cl lact. preg 1st swell=5mm — 92×35×9×14×8 = 6.0g

1231 ♀ vag cl pel. notched lact. preg 1st swell=5mm — 90×38×10×16×9 = 6.0g

1232 ♀ vag cl. pel cl lact — 85×35×10×16×9 = 6.0g

1233 ♀ — 84×33×10×15×8 = 6.0g

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1973

Catalogue

226 km NW Villa Hayes by rd. Depto. Pte. Hayes Paraguay

21 Nov.	1234 ♀	vag cl pel notched	85×33×10×16×9 = 3.5g
	1235 ♂	scrotal t=2, tub not vis SV=1	79×33×8×16×9 = 4g
	1236 ♂	scrotal t=2, tub not vis SV=1	81×35×9×15×8 = 4g
	1237 ♀ +	vag cl pel op, nipples ext. preg CR=11mm	87×37×9×15×8 = 5.5g
	1238 ♀ +	vag cl pel cl	83×36×9×16×9 = 4g
	1239 ♂	scrotal t=4, tub not vis, SV=3, swollen	77×35×10×14×8 = 4g
	1240 ♂	scrotal t=4, tub not vis, SV=3, swollen	77×33×8×15×9 = 3.5g
	1241 ♂	scrotal t=4 tub not vis, SV=4, swollen	83×35×8×15×8 = 4.5g preserved in formalin
	1242 ♂	scrotal t=4, tub not vis, SV=4, swollen	80×34×9×15×9 = 4g
	1243 ♀ +	vag cl pel notched lact., preg rt. swell=7mm	80×30×8×15×8 = 5g
	1244 ♀ +	vag cl pel op, nipples ext. worn preg rt swell=2	78×31×8×15×9 = 4.5g
	1245 ♀ +	vag cl pel op, nipples ext. worn preg CR=12	88×37×9×15×8 = 5.5g
	1246 ♀ +	vag cl pel op, nipples ext. worn preg rt swell=6	83×34×9×15×8 = 4.5g
	1247 ♀	vag cl pel op, nipples ext., worn preg rt CR=9	77×32×8×15×9 = 5g
	1248 ♀ +	vag cl. pel op lact. preg CR=12	preg CR=17 birds in formalin + skin 82×34×8×15×9 = 6g
	1249 ♀ +	vag cl pel op lact. preg rt CR=7mm	85×34×9×16×8 = 5.5g
	1250 ♀ +	vag cl pel cl	84×35×8×15×10 = 5g
	1251 ♀ +	scrotal t=8, tub. vis, SV=5, swollen	82×35×9×16×9 = 4g preserved in formalin
	1252 ♂	scrotal t=9, tub vis, SV=3, swollen	85×31×8×15×8 = preserved in formalin
	1253 ♂	scrotal t=9 tub vis, SV=4, swollen	86×35×9×15×7 preserved in formalin
	1254 ♂	scrotal t=9, tub vis, SV=5, swollen	85×34×10×15×8 preserved in formalin
	1255 ♂	vag op, pel op, lact.	88×34×9×15×8 "
	1256 ♀	young of 1256	89×36×9×16×8 "
	1257 ♀ +	vag cl pel notched	42×10×9×8×4 "
	1258 ♀ +	young of 1258	90×37×9×14×7 "
	1259 ♂	vag op, pel op, lact	56×14×8×9×4
	1260 ♀ +		86×34×10×16×8

Myers, Phil
1973

Catalogue

226 km NW Villa Hayes by rd, Depto. Pte. Hayes, Paraguay

21 Nov.	1261 ♂	young of 1260	preserved in formalin 49×15×9×8×4
	1262 ♀	immature	" 57×18×9×10×5
	1263 ♀	immature	" 83×34×10×15×9
	1264 ♀	immature	" 78×30×9×15×8
	1265 ♀	immature t=2 zbd	" 78×31×9×16×8
	1266 ♂	vag op, pel op lact., ut. swollen = 4	" 81×34×9×15×8
	1267 ♀	vag cl pel notched lact., ut swollen = 2	89×36×10×15×8
	1268 ♀	vag cl, pel notched, lact	88×36×10×16×8
	1269 ♀	vag op, pel op, preg CR = 4	86×35×9×15×8
	1270 ♀		105×40×10×13×4
27 Nov.	~~1271~~	Recoleta, Asunción, Paraguay	
	1271 ♀	vag cl, pel op, lac	preserved in formalin 111×50×9×14×8=11.g
	1272 ♀	vag cl, pel cl, immature	" " " 69×24×9×11×7=5.g
	1273 ♀	vag cl, pel cl, immature	" " " 72×28×9×12×7=5.5g
	1274 ♀	vag cl, pel cl, immature	" " " 69×23×9×10×6=5.g
30 Nov.	1275 ♀	vag cl pel op lact.	105×47×9×13×7=8.5g
	1276 ♀	vag op pel op lact.	108×56×9×13×7=7.5g
	1277 ♀	vag op pel notched lact., ut. swollen	135×57×10×20×11=14.5g
	1278 ♀	vag op pel notched lact	126×50×10×21×12=16g
	1279 ♂	scrotal t=3 tub. not vis, sv=2	117×49×10×19×10=10.5g
	1280 ♀	vag cl pel notched. lact.	98×40×8×16×9=8g
	1281 ♀	vag cl. pel notched lact.	98×41×8×16×10=8g
	1282 ♀	vag op pel op preg. CR=23, 3 embrinos	101×40×10×16×10=8.5g skull only
2 Dec.	1283 ♀	vag cl, pel notched	124×50×10×19×12=21g skull only
	1284 ♀		130×55×11×20×12=13.5g
	1285 ♀	vag op, pel op, lac t=4 tub not vis. sv=2	106×45×10×13×8=10g
3 Dec.	1286 ♂		125×54×10×19×10=14

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Recoleta, Asunción, Paraguay

3. Dec.	1287 ♀ vag op pel op lact		15.5g
	1288 ♀ vag op pel op lact Preg 3embryos. CR=27	140×59×10×21×12=	14g
	1289 ♀ vag op pel op lact	130×58×10×20×12=	22g ~~15.5g~~ 9g
	1290 ♀ vag cl pel notched lact.	112×45×9×13×7=	~~22~~ g
	1291 ♀ vag cl pel notched lact.	95×41×8×17×10=	
	1292 ♀ vag op pel op lact	102×43×10×17×10=	
	1293 ♀ vag op pel op lact	130×51×11×18×6	
		98×33×9×15×~~8~~	
7 Dec.	1294		
	1295		
8 Dec.	1296 ♂ scrotal t=7 tub not vis sv=2		skull only 96×37×9×15×9 = 8g
9 Dec	1297 ♂ scrotal t=8, Tub. not vis. sv=1		skull only 90×37×9×16×9
	1298 ♀ vag cl, pel op, lac		skull only 99×43×9×17×9
	1299 ♀ vag cl, pel op, lac		skull only 130×56×11×19×12

Myers, P.

1972 - 1973

Journal

Paraguay

Myers
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1772

Journal

Panama City, Panama

15 May arrived 7:30 PM local time. Immediately discovered that box of nets, etc had not arrived from San Jose. Went to hotel Caribe in Panama City, ~~&~~ called Bussing in San Jose. "Unaccompanied luggage" requires an export permit from ~~San Jose~~ Costa Rica, which he ~~did~~ could not get on the short notice given him. Choices were me go there & pick it up, or have mail it to Asuncion. Chose the latter - air mail. To Banco Interamericano de Desarrollo, insured for $400.00. Nets to be divided among 2 packages.

20 May corner of Gral Franco (España) & Kubitschek streets, Asuncion Paraguay One of Maggy's friends showed me a colony of Molossus(?) under some tin sheets on the roof of a Mormon church. They were easy to catch, so I grabbed 26. Saw around 50, could have been many more down in cracks or under other parts of the roof. All seemed to be the same thing. Dissected & put up 8 ♂'s & 3 ♀♀'s. All were in non-breeding & showed no signs of recent breeding. The first 3 I captured were ♂. The next 23, taken from progressively further down the roof, were mostly ♀. Looks suspicious

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corner of Gral. Franco España & Kubitschek street Asuncion, Paraguay

20 May like some social thing. They were all prossly fat. I examined the 15 extras externally & released them.

24 May put up a Myotis Roger killed with a Taser. had been frozen & doused w. alcohol so I preserved wetting. fat, but not as fat as the M. lasiodo.

1 June - June 8 1.6 km NE jct General Genes & San Martín, on Gral Genes, Asunción, Paraguay. Also known as Isla de Francia. Traps were set in the vicinity of a truck garden owned by Sr. Martés, & a chicken farm & grapefruit grove managed by Sr. Manuel Gonzales (property of Ricardo Gregor?). Both areas are heavily disturbed, & support numerous cat & dogs (for whose benefit we were asked to refrain from snaptrapping). During this period we had 2 rainy days, & at other times partly cloudy or sunny weather with temperatures 75-85°F. The truck farm is slightly lower land with an acre or so of swamp. All traps were placed at the edge of the swamp or in areas of 2° growth. I recognize none of the non-cultivated plants - but compositae & solanaceae are common. Bananas seem to be ± wild. The land around the

Journal

Ave Gral Genes, 1.6 km NE jcn Ave San Martín, Asunción, Paraguay

1-8 June

Chichen farm is mostly tall grass with numerous grapefruit tree. There is some 2nd growth which has tree of 40-50 ft height. Here in particular, there are lots of people ("criaturas", according to Manuel), & traps must be hidden. At both places "conejitos" are supposed to be abundant. The description sounds like a guinea pig, despite the name. They are ~8" long, agouti colored, & shaped like a large guinea pig if the glimpse I had means anything. They eat grass, leaving half-chewed pile like Microtus, & gnaw on exposed mandioca roots. They do make obvious runways. Supposedly bats were easy to come by until a large hollow tree was cut down. They're still abundant, flying in early evening. Supposedly are tiger farms, a tight cluster of many individual, hanging from branches during the day — resemble a bees nest. Schade of the museum at the University said they was Tadarida — hmm. Only other obvious non-domesticated mammal signs are numerous small holes

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1972

Journal

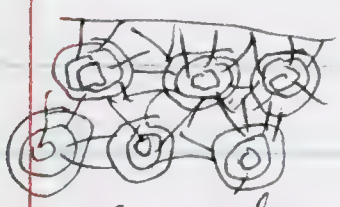
Ave. Gral Genes, 1.6 km NE jct Ave San Martín.
Asunción, Paraguay

that Manuel thinks are made by armadillos.

1-8 June There are lots of birds Manuel forbids the "muchachos" from killing them. English & rufous collared sparrows abound. There are espineros (Phacellodomus, maybe P. rubber), which build stick nests reminiscent of magpie nests but much more elaborate. also horneros, which build rounded, enclosed mud nests in the crotches of trees, make raucous cackling noises, & are hard to beyond. Blue-gray tanagers, some sort of gold finches, a siskin-like fringillid, the cuckoos Guira guira & smaller an accipiter, something like a sparrow hawk (but not), & many others - including somebody's pet greater rhea. We have seen one herp - an anguid-like lizard sticking its head out of a hole in a telephone pole, 15' off of the ground! I have heard Bufo marinus & some frogs. Insects - enough mosquitos. There is a plethora of ant species. Some build compact nests, made of mud, ∧ shaped & upto 2 feet high. There are some active ants, but they are probably rigidly controlled by the farmers. Numerous other birds too (including, unfortunately

Ave Coral Cenes, 1.6 km NE jcn Ave San Martín,
Asunción, Paraguay

1-8 June (per auth.) 2 obvious termite types, one making the large black tree nest & covered trails over branches, which is common in tropics & one making covered trails of sand across the ground. Best arthropods so far are the social spiders. +1 undreds of individuals to a colony, each individual ~ 1/4 - 3/8" long, & mostly black w. red markings on the dorsum & sides of abdomen. The web is really hundreds of individual webs spun between shared guy lines (from tree to tree, tree to ground, etc). i.e.,



each weblet ~ 3-4" in diameter. Each individual web is tended by one spider. This system results in a remarkably even spacing of the adults in the web. Spacing is enforced by a signal where a spider shakes his web when a neighbor comes too near. At night all spiders leave the main web & cluster in a sick structure in the tree at the edge of the web. Looks like a neat system & worth examining. Trapping - we set only live traps.

~~Date~~
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1972

Journal

Ave. Coral Cenes, 1.6 km NE Jcn Ave San Martín, Asunción, Paraguay

1-8 June

The first night all traps were set, but due to a design defect we couldn't have captured anything. We trapped every night but June 6 between ~~date~~ June 1 & June 7 (inclusive). The # of effective traps varied, but I estimate a total # of 50 trap nights. Peanut butter, ripe bananas, carrots, & lettuce were used as bait. On the 2nd night I caught 1 Didelphis & one Rattus. On the 3rd night, 3 Didelphis (one released about 5 miles away). On June 5 I caught & released a Didelphis (also 5 mi away), & 2 traps set on June 7 caught a Didelphis whose skull I kept. All but 2 of the Didelphis were gravid - I estimate 3/4 size (from what Gonzales says.) all animals were very fat. almost every night over half the traps were sprung & often moved. Dogs & opossums probably responsible. Didelphis was caught in all of the habitats sampled. The orejetos are probably unwilling to enter traps, & I have asked Manuel to offer 5-10 G's to anyone bringing one in (they hunt them with dogs &

Ave. Gral Genes, 1.6 km NE jct Ave San Martín, Asunción, Paraguay

1-8 June (Almost hot). That we caught 110 other rats may testify to that of cats & dogs the area support.

13.1 km E of Luque on rd between Luque & San Bernardino, Dept. Central Paraguay

June 10 - June 17 This is the foot of lake Ypacaraí, a large lake E of Asunción. The rd is a new dirt rd connecting Luque & San Bernardino over the N end of the lake, where the lake drains into the Rio Salado. The river is poorly defined here with barely discernable channels. Most of the flooding streams are little more than swamps, with emergent vegetation mostly tall bunch grass, a thorny legume, & a malvaceous shrub. The site 13.1 km E of Luque is at a bridge over a small stream of this nature. Two other sites, 14.6 km & 16 km E of Luque are slightly higher with a dense ~~cover~~ canopy of low grass & unpenetrable clumps of thorny bushes. All look as if it is periodically flooded. The entire swamp is enclosed by fences & grazed. Nearby are extensive palm savanna & grassy savanna, & in a few miles the dense flat swamp is bordered by low forested hills.

~~Each~~ Running this week to a leaf

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Phil
1972

Journal

13.1 mi E of Tuque on rd between Tuque & San Bernardino
Dept Central Paraguay

June 10-17 traps were set between the fence & the road — possibly since fences are usually at least 20 ft feet back. We tried to prevent the frequent users of the road from seeing what we were doing, to prevent trap loss but this resulted in the traps being hurriedly placed or not put out at all. On rainy days the road is closed. During the trapping period there were 2 consecutive days (June 12-13) when we were unable to check traps. First night - 8 snap traps set near unburned wood & red gas to Nueva Colombia in low woodlot roadside brush. Second night - these were reset & 20 more set at bridge 13.1 km E of Tuque, along roadside & in grasses & floaty vegetation in water 6" deep. Third - sixth nights 10 more added, 14.6 km E of Tuque (swamp edge, solid ground). Seventh - eighth nights, also collected more the first 8 removed, 5 more set near bridge & 8 live traps set 16 km E of Tuque beneath heavy brush & lantras. Total catch, one rat, collected June 14, big bridge (#149). This was during the rainy pd when traps were not visited for 2 days, & all that were recovered of the rat were a head & a strip of skin from the neck (white fur). Trap, set on

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Journal

13.1 mi E of Iguaçu on Iguaçu-San Bernardino rd
Puerto Bertoni, Paraguay

June 10-17 a rock surrounded by water, had flipped off & was submerged. Many traps were sprung & dragged, & even when they were set in emergent vegetation they rarely got the bait (peanut butter, oat or banana).

Everywhere there is sign of a large rodent which leaves a platform of clipped 1-½ ft reeds, stems, & piles of cutting. These reported capybaras & nutria from here. Other animals - blood sucking leeches, swarms of mosquitos, men fishing & catching what appears to be piranha, several kinds of frogs (inc. Bufo Marenus). Birds - rhea, red-winged tinamou, whistling herons, black & turkey vultures, crested caracara, yellow-headed caracara, jacana, snipe, picui ground dove, monk parakeets, guira cuckoo, giant cowbird, scissor-tailed nightjar, campo flicker, harriers & espinero (various kinds), kiskadee, vermilion crowned flycatcher, white headed marsh tyrant, white monjita, gray monjita, vermilion flycatcher, spectacled tyrant, hudsonian black tyrant, white banded mockingbird, pale breasted thrush, rufous bellied thrush, white-tufted grey tanager, & red crested cardinal.

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Journal

Chaco Experimental Station, 295 km NW Villa Hayes
on Trans Chaco hwy, Depto. President Hayes, Paraguay

21 June We crossed the river at about 3 PM. The weather was clear & cool. There has been an unusually severe storm the previous week (ending June 19), & the rd had just reopened. The road is a good dirt road, with no rocks, but composed of a clay which dries to a remarkably fine dust. In low places, where the road dries more slowly, there were deep ruts, but generally the road was very fine. Little traffic, mostly large cattle trucks. Surrounding land is low, wet, & dead flat. acres & acres of palm swamp (broken by low forest (max alt of trees = 50'). The vegetation of the forest is thick & generally scrubby with diversity low compared to rainforest. Lots of vines, but few other epiphytes. Generally the place is reminiscent of Middle Florida. We drove until 19 PM. Saw 2 foxes by the road, but were surprised that there was not more game. Camped by rd at km 100. Heard an owl that sounded like a great horned owl. (Snakes, bird see list on June 26).

23 June Land gradually (very gradually) rises as you move inland. % of land under water (palm swamp) goes from above 50 % to below 20 %

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Journal

Chaco Experimental Station, 245 km N.W. Villa Hayes
on Trans Chaco Hwy, Depto. Pte Hayes, Paraguay

22 June by km 245, the Experimental station. Saw a medium sized mustelid, probably a grison, cross the road. The Mennonites killed foxes — we saw at least 4 or 5, which seems like many considering that the nature of the road keeps cats open down, & that the road has been closed for several days. Also saw a crested caracara flying over palm swamp w. a mouse in its beak.

Arrived at station 2:30 PM. Ing. Nacuni is in charge w. Ing. Samudio of the Ministerio de agricultura & ganaderia up for a visit. The station has 3000 ha of which 600 ha have been cleared & are lightly grazed. Their main project now is to experiment w grasses, attempting to find one which suits the chaco peridan soil, that can withstand grazing, & which provides adequate food year-round. The soil is topped by an impermeable clay to a depth of 60 cm, which is underlain by more permeable but very salty ~~material~~ sand. Not suitable for farming w/out drastic treatment. The weather is hot & wet during the summer, & cool-cold (occasional frost) & drier during the winter. There is ~900 mm rain. Due to the impermeability of the soil this stays

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Journal

Chaco Experimental Station, 295 km NW Villa Hayes
on trans Chaco hwy Depto. Pte Hayes, Paraguay

22 June on the surface, resulting in large areas being
under a couple of inches of water during the
wet season, but drying to a powdery dust
during the dry season. ~~This~~ This is the start of
the dry season so there is a fair amt of
standing water - more or less permanent
puddles anywhere, w. small and frequent.
The 600 cleared ha are mostly native
grasses ~~1~~ ½ ft tall, w. a few shrubs & forbs
mixed in. The rest of the station is either
palm swamp or low woods. Yesterday
we put 18 traps only out (due to the late
hour) along the border of a cleared but
fallow field & woods. Many piles of
dead branches. Macchi found a very
odd green frog (tree?) on a low bush in
± cleared field, ~~at~~ away from water (as far
away as we can get, maybe a few hundred feet).
whitish pastel green some yellow on eye rim &
lower edge of jaw, tubercles on belly with
turquoise green, & white. eggs in cream color
large parotoid glands, but skin dry &
smooth. a tiny white secretion # 458 in
formalin. seems to have long toes in leg - extra joint for climbing? 5/or, deliberately mutilation.
8 PM checked traps caught a
guinea pig along the edge of the field
23 June trapping results (from last night - a couple

Journal

Chaco Experimental Station, 245 km NW Villa
Hayes on Trans Chaco Hwy, Depto Pte Hayes, Paraguay

23 June of woodrat-like rodents & a vole like beast, plus the guinea pig. Hand captured some frogs (eg., 160, w. red wash under legs) in grass near water, & some (eg., 159 w yellow on legs) on walls of bldng. 161, a toad was caught in leg traps, which also caught in some smaller vole-like mice. Macchi caught a water rat (174), which also resembles a large Arvicola or small muskrat, but has coat almost completely webbed hind feet. Hand caught in grass near a pool. Saw a Colubrid under a wood pile, ~ 15" long w gray or black & yellow on belly. Set out 60 snap traps, 40 on open feet (~15 in low grass, ~45 in grass & shrubs 2-3 ft high), & 20 in bushes along edge of field. Lots of standing water in fields mostly confined to ruts & cow footprints. Also lots of mouse sign - trails, droppings & clippings.

24 June trap checked, left set. 11 vole-like mice of one or two sp (163-173). During day 3 mice, of apparently yet another sp (175-177). Shot a guinea pig (178) in the evening, in grass & bushes along a forested part of road. 60 rat traps set along there forest by rds edge in late afternoon. Low

Journal

Chaco Experimental Station, 295 km NW Villa Hayes, Depto. Pte. Hayes, Paraguay

24 June

Forest (~30 ft max), not very diverse, heavy underbrush mostly composed of wild-pineapple like legumes. cactus. almost all bushes & trees are spiny. Also browses? few kinds of epiphytes (one type small bromelias), the lots of vines. There are a # of standing dead trees, but branching arborescent Bromeliaceae no cactus. Some parts of forest are damp, even w standing water in rd. Pineapple is especially dense here, & often fallen dead tree. Grass patches in woods too - one type dense, another quite open. especially where forest is less dense & lots of light comes thru. numerous deciduous trees.
Found what appears to be a small portion of the cast skin of a snake - a piece 5' long. Immense snake. Some fox. Lots of procyonid, fox tracks. deer & pig too. according to Macchi there are 4 kinds of cats. Lions are common, Jaguars hardly ever seen any more. ocelot, rare "Tigrito" still common
amazing # of kinds of ants - especially abundant fire ants & attine ants.
Attine ant nest the highest hill around - over 1 m of the surface & ~17 ft diameter! numerous trails radiating out like spokes on a wheel. Macchi caught a small armadillo which escaped

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Journal

Chaco Experimental Station, 243 km N Villa Hayes, Depto. Pte Hayes, Paraguay

25 June — Wind has switched, now coming from N & is strong. in traps from last night - 1 small marsupial, w. head mashed, & head, feet & tail badly ant damaged (II 179), a small Didelphis in a live trap set in a leaning hollow tree (II 186), 3 woodrat types, & 3 of a vole-like mouse. The marsupial was by dead wood in a dry place, woodlots were mostly by dense tangles of dead wood, & vole caches in small grass patches or in woods near bromeliads. Saw a large - 24" - armadillo by edge of swamp, & found a dead procyonid in the middle of forest, apparently undamaged. Took No skull taken (thinking about rabies problem). C/type labelled Procyon cancrivorus in Asunción zoo - larger & more elongate than Procyon lotor. Traps (70) moved to swamp. This is mostly Palmar - few miles of water, & scattered palmettos, dense grass of several kinds, also stands of rushes, legume bushes, woollen bushes, sedges etc. lots of diversity, veg. very patchy - but w/in patches apt. pure stands. Only dry ground is at base of palm tree, where there usually a square meter & two.

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Journal

Chaco Experimental Station, 293 km NW
Villa Hayes, Depto. Pte Hayes, Paraguay

25 June Thru the middle of this runs the track of an old road, which peters out into a trail thru the floating veg. probably kept clear by crocodiles (reputed to be up to 3 m, quien sabe?). numerous screamers, stork, herons, ibis, a few muscovy ducks. traps set at base of trees, on floating veg, ~~and~~ on rafts made of cut reeds, & in some rotting log structures at edge of lake. lots of clippings evident esp in nooks & around floating vegetation. Saw a rat at rotting log structure - jumped out of a hollow log when I stepped on it, & disappeared under water. May be sign of larger rodents - eg., trails & clippings, tho the cowboys claim that ~~neg~~ neither capybaras or nutria are found here.

26 June traps from last night - 1 frog, 13 web footed swamp rats (11 put up, # 192-202), 1 vole like mouse (in grass at edge of swamp, ~~[illegible]~~ # 191) & 2 new long tailed swamp mice, # 189-190. More wind, clouds building up. Decided to do "miscellaneous" trapping to get more of these long tailed mice & to

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Chaco Experimental Station, 245 km NW Villa Hayes, Depto. P Te Hayes, Paraguay

26 June rec'd by plane more of the small mammal 34 traps set in dampish brush w. lots of cover nearby. + 36 set in low grass areas of swamp, some where water 1" deep & others on dry ground.

27 June traps from last night - unsuccessful in what we set out to do. #203 & 204, were caught in swamp, #205 in the woods. also 2 wood rats, 206-208, the latter two preserved as skeletons. drove to Pozo Colorado, learned rd was closed due to rain at Pozo Azul. returned to Concepción.

28 June returned to Asunción. cloudy most of the way. bird list for trip (we only identified the obvious): neotropic cormorant, olivaceous tiger heron, american egret, whistling heron, white necked heron, jabiru, maguari stork, buff necked ibis, plumbeous ibis, roseate spoonbill, bare faced ibis, southern screamer, brazilian duck, muscovy duck, white faced tree duck, black vulture, turkey vulture, black collared hawk, white rumped hawk, savanna hawk, crested caracara, yellowheaded caracara, white-tailed kite, sparrow hawk, chaco chachalaca, limpkin, giant wood rail, red legged seriema, jacana, lapwing, common snipe, picui ground dove, monk parakeet, black hooded parakeet, squirrel cuckoo, groove

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Chaco Experimental Station, 295 km NW Villa Haye, Depto Pte Haye, Paraguay

28 June

billed (?) ani, guira cuckoo, white winged nightjar, ringed kingfisher, amazon kingfisher, campo flicker, cream backed woodpkr, red billed scythebill, vermillion flycatcher, vermillion crowned flycatcher, kestrel, white monjita, plush crested jay, chalk browed mockingbird white banded mockingbird, brazilian cardinal, rufous collared sparrow. all common names are from de Schauensee, 1970 - Birds of S Am

Ave. General Genes 16 km NE Jesu de Ave San Martin, Concepcion, Paraguay

7 July

nets finally arrived. very cold weather - frost outside this morning (in car)! not too hopeful for bat, but we set up 5 nets at Estancia Francia. Two were placed end to end in overgrazed area which has clumps of tall grass, a few grapefruit trees & is near to bananas, sugarcane & a few palm-ed palms. Net placed fairly high, so bottom line 24" off of ground. One was set among some bananas in heavy cover - dead tree nearby, grapefruit tree etc. No ripe bananas. Of the 5 nets were set over cut grass between chicken roost & fence, back of some pole w. one net above the others. At about 8 we caught two small phyllostomatids, 209 & 210, which were

Vuyer
Phil
1972

Ave General Genes, 1 block NE joint of San Martin, Asuncion, Paraguay

7 July nearly torpid in the net when we land then later on the [illegible] went into deep torpor, from which he eventually recovered. weather became increasingly colder & we quit around 9:30.

Corner of Gravel del Generalissimo Franco & Kubitschek St, Asuncion, Paraguay.

9 July name change in street - Gral Franco used to be España. wonder what ½-life of street names is here? This is back yard of our house. 4 mels set over grass. about 7:30 caught 1 small fruit bat (# 211), similar to those caught at Isla de Francia July 7. warmer, but still cool

Encarnación, Dept. Itapúa, Paraguay.

12 July 4 molossids taken from an abandoned silo in the city. There were probably hundreds of bats, but all were under corrugated tin sheeting on the outside of a hut on top of the silo. No way we could get at them except there ½" cracks in the boards from the inside of the hut. We managed to snare 4 with hemostats & drag them thru. But the place reeked of molossids & they were keeping & rustling indicated dozens of bats.

Wgey
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1972

Journal

ave Gral Genes at jen ave San Martin,
Asuncion Paraguay This is actualy
13 July at home of Butlers near this jen.
They have complained of numerous
bugs. one hole in roof small, & molasses
& they have counted 13 bats leaving the hole.
Set up 5 nets in yard. Mangos nearly
Papayas w. fruit. at 7 AM caught
a large Artibeus (#217), & at about 8:30
caught another of the small phyllostomatids
seen at Isla de Francia. Weather clear &
warmer still cool (temp probably in 50's in
evening).
Corner of ave. de Generalissimo Franco &
Ruta Kubitschek at Asuncion Paraguay
15 July Warm weather has returned. Outside
temp in eve 65-70°. partly cloudy looks
threatening. Nets up high this time - bottom
line 5 feet off of ground. caught 1 vespertilionid
looks like Lasiurus ega cinereus.
194 km N of Coronel Oviedo on Rte 3, Dept.
San Pedro, Paraguay
16 July left Asuncion 8 AM. It was clear & warm, rained 2
days ago. We arrived at Coronel Oviedo at about 10 AM,
but we had to wait until noon for the road to
open. The rd surface was very bad. ~~Mud slide~~ There
were mud slides hundreds of feet long, full of
semi liquid mud which splashed all over the

1914 km N Coronel Oviedo on rt 3, Dept. San Pedro, Paraguay

16 July cor. Once we went over the bank onto the red clay. The wheels spun but ~~didn't~~ made no impression on the slick surface, ~~even~~ Finally a truck pulled us out. By mid afternoon the sky had clouded over & during the evening there was some rain. But the rd stayed open. We quit at about 5:30 PM & to camp beside the road. Most of the road is lined with small farms & most forest are cut to some extent. Habitat looks wetter as we go north — greener, forest is higher & denser, the vines are thicker. lots of ferns, lots of butterflies. Still not much ✓ in the way of bromeliads. Set out 10 snap traps (peanut butter & oatmeal) in a hurry, mostly by rotting logs & tangled underbrush at the edge of the road. Saw one small rabbit, & about 8 one of the traps went off, producing a vole.

8 km E of Concepcion by rd, Dept. Concepcion, Paraguay

17 July day dawned cloudy, ~~but it~~ and we contemplated staying put but clouds broke around 10 AM & we left. Rd continues to look wetter, W. mesic-y forest, & few people. 30 km (?) or more before 11 & 3

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8 km E of Concepcion by rd, Depto Concepcion, Paraguay

July 5 Fair. At 5 there is a change from clay to sand, the vegetation looks much drier, the rivers are clear, & there is a fair amount of savanna, the whether it is natural or not was not clear. arrived at locality around 4 PM. Ranch is called Las Marantiale or Estancia Y bu, & is owned by the Chesapeake International Corporation. Frank Burkholder is in charge. Bill Mark manages the ranch for him. They have 6000 ha, which support 3000 head of cattle currently, but the herd grows. They are experimenting with colonial grass, with large-scale clearing of forest & with cattle genetics. The ranch is bordered on the north by the rd, on the W by the R Paraguay, & on the S by the R. Ypané.

Most of the ranch is wet grassland or palm swamp. The water level fluctuates from subsurface (ie., dry - as it is now) to several inches during the rainy season. [illegible] There are many grasses, mostly bunch grasses but the different sp. tend to grow in relatively pure clumps. There is much forest. It is medium high (→50-60 ft), with lots of

Journal

2 km leyard E of Concepcion, Depto Concepcion, Paraguay

17 July vine, dense trees, a thick growth of wild pineapple, & a more xeric appearance than the forest we passed thru to the south. Most shrubs are thorny. There is not really a canopy, though this could be due to selective cutting. Species diversity seemed higher than in the Chaco, few trees had lost all their leaves, & there where shrubs & trees blooming, tho not many. There are several lakes, both natural & manmade, but none more than an acre or more than 3-4 m deep. We decided to net one - with several hundred square feet of open water & an equal area of bunch grasses growing out of water, we saw 2 lilly padded swamps, mostly dried up, & numerous watering ditches bulldozed for the cattle. Put out (hurredly) 25 snap traps, at a grassland-forest edge. No nets tonight.

18 July 1 rat - a spiny, small carnivorph, in the traps. No spines, otherwise looks like an immature procyonid. Spent the day working along a rd which transects the ranch, riending from the bldings (walk from the air strip) 8 km W to the R. Paraguay,

Meyer
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Journal

8 km by rd E of Concepción, Depto. Concepción, Paraguay

18 July Lut w. branches into Concepción & to the R. Ypané & others. Set out 6 nets, 3 over the lake described above & 3 over watering pens. Saw a fox. Frist bats caught were molossids but after 9 PM only phyllostomatids were captured. 17 bats in

19 July total, 3 sp (±). Nets closed 6:30 A.M. No traps had been set. Nets left all same place 2 more added over water, pads, fruities down the rd. Traps set along edge of pond (15), & along track thru grassland that is dry now but looks as if it may be flooded sometimes (30 traps). Picked up one of the frogs with too many joints in its legs, gray colors (H 240). Night cool, only 3 bats (~~no~~ first sunny night at 10 PM). But one was a Noctilio leporinus!

20 July Nothing in traps in grassland or by pond. Nets Same. some warmer. Traps set along edge of grassland & woods (across rd from the lake, ± 3 km down road from bldings), & then the woods & into a swampy, pineapply area. Inside the forest is remarkably clear - only intermittent patches of pineapple. Tree small, sp occ. No sign of mice anywhere. about 75 traps

Myers
Phil
1972

Base by Rd E of Concepción, Depto. Concepción, Paraguay

20 July set including the 15 left at the edge of the pond 4 molassids, a phyllostomatine which looks like Tracheops, & c. Myotis

Saw 2 sp monkeys in woods by lake - howlers, w. black & tan individs (~20 or more), & a troup of about 5-10 spider monkey-like beasts (quick & agile in contrast to howlers)

2 July one genuine pig caught in thick pungent, by tangle of fallen rotting wood, deep in forest. Old water rat by pond several traps picked up, including 255 & 256 which are paired in dry place, & are black & red spots & red blotches in the axillae & groin. Cold, no nets set. traps reset, not changed.

22 July ~~much warmer~~ cold. 2 large rat from last night, look like Proechymys but without spines. Tranny, squirrel-like sp. also. Both were in woods, near tangles of fallen wood. Traps left same places in woods, but picked up from grassland & about 20 set in swampy grass around pond - mostly in clumps of grass separated by water, or on rafts of grass set in channels between clumps. Looks mousy. Some obvious tracks & clippings.

23 July 1 water rat, 1 large rat.. pond & ~~&~~ wood, respectively. warm, net set. pulled off of water ditch & reset, with 3 left on lake; one set high above fence,

Journal

8 km beyond E of Concepción, Depto Concepción, Paraguay

23 July near a suspicious looking dead tree not far from here. We set two set among citrus trees along driveway leading from the bldgs, 1 set near outdoor light by bldg, & one set between big tree by corral. The nets set by the lake were still the best producers. 2 serpentiform, vertebrates several molossids. The net by the dead tree produced a T. rachoma - like bat & another fly (lost tentatively CF 260). traps pulled. Drove east towards the R Paraguay but road blocked by bad bridge. Walked a few km. Very sandy area, where erosion has cut several wide shallow gullies & left stranded pateles of vegetation. Looks very desert. This borders on low forest (with lots of quebracho), & in the sand we saw tracks of fox, procyonids, cats, deer, pigs, & smaller stuff. Traps same.

24 July 2 water rats. still warm, balmy, but clouds up in late afternoon, nothing good. 2 more serpentiform, a couple more molossids (mice are rare, very large, very dark one caught over the water. & 2 very small ones caught in

Journal

8 km by rd E of Concepcion, Depto Concepcion, Paraguay

24 July net between citrus trees near house) a glassophozing caylet over the water & miscellaneous phyllostomatids. As usual, nets over the water are best. nets &

25 July taken down in AM, & one left in clear warm weather. (for birds see next locality)

28 km S of Jcn rte 3 & rte 5 on rte 3, Depto Concepcion, Paraguay

sandy area mentioned above. we camped on the border of a grassy, brushy field (cleared but fallow? — probably not. but perhaps natural) & a forest. field is densely covered w. a diverse assortment of knee-high grasses & shrubs. wood is tall, w dense growth of a monocot vine w. leaves like bamboo as undergrowth. Nearly impenetrable. Numerous trails look like perhaps armadillo. There are numerous armadillo holes around.

30 traps set in field 20 in woods

26 July 2 strange caenolestids that look almost like gophers in general form — weak eyes, tubular body, short tail, short but powerful legs, small ears, etc. but pelage very spiny. also one nondescript brown rat with long

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Phil
1972

Journal

28 km Sly rd N jcn rt 3 & rt 5, Depto Concepción, Paraguay

26 July cars & a very long tail. The rat came from the brush, the gopher-like beast from the field. Soil is very sandy in the field & I saw several holes that were of the size & general appearance of Dipodomys holes at Hastings & the cavies? Some rain at last night, & this morn looks very threatening. We drove awhile & Lent had to turn back. camped again at same place. No traps, but did see 2 armadillos - 1 large (body at least 24") & one small (12") - both in the thickest part of woods at right.

Birds for the trip (including stay at Las Marianitas & km E of Concepción): no organized list kept. We were impressed at how much more tropical the birds were here than in the Chaco. There were toucans & hummers. I saw a large group. Colors were brighter. Unfortunately we were too busy to do much identifying.

1.6 km by rd NE jcn Ave Gral Genes & San Martin, Asunción, Paraguay

30 July warm. set nets in field, over small pond

Meyer
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Journal

1.6 km by rd NE jct Ave Gral. Genes & San Martin, Asunción, Paraguay

30 July (20'dia.), in bananas, ±1 high up around chicken house. most productive net was over lake, producing 2 black Artibeus & the Sturnira-like bat. also the Sturnira-like bat near bananas. High nets no good. 10 bats, 1 Sturnira (-like) escaped.

5 August Kofords here. cool. went out in afternoon, netted a few birds. Koford put up a tropical gnatcatcher & a rufous collared sparrow, I did a Furnarius rufa. Nets out at night - by bananas, in field & high up by chicken house (one by pond). Produced 3 bats.

8 Aug. jct Ave Gral Franco & Kubitschek sts., Asunción, Paraguay. warm. all nets high (bottom string 6' or more off of ground. 3 bats - incl 2 Artibeus & 1 of the small striped jobs - w. bright yellow/orange.

10 Aug 1.6 km by rd NE jct Ave Gral Genes & San Martin, Asunción Paraguay
quite warm, humid. looked like a good night. Nets out in all the usual places not at pond (6 total). only 4, all phyllostomatids, & all fat.

8.4 km E of Paraguarí by rd., Dept. Paraguarí, Paraguay

13 Aug [redacted] area of almost rocky hills getting

Myers
Plw
1972

8.4 km E of Paraguarí hwy rd. Dept. Paraguarí, Paraguay

13/Aug out of flat grassland. Hills are not viable & are covered w. forest & brush - same looked quite nice. Highest hills are probably 4-500 m or more. Lots of lizards — especially like # 303, which resembles Tropidurus. Saw at least 4 other kinds: an Ameiva-like beast which scuttles around under the wild pineapple, a blue-tailed skink seen under loose rocks by road edge, a large iguanid (>1 ft) in rocks, & a large (6" not counting tail) gecko in a rock cleft. Both of the lizards collected were taken by means of a slingshot — difficult at noon because lizards active & very wary. Lots of large cracks in rocks, but most rock faces covered w. wasp nest - very unpleasant. Found a few bat droppings but no bats. Looked thoroughly it looked good. Saw 2 mouse nest = clumps of dried grass stuffed into a crack, but w/out the mice. Veg very diverse lots of cover, etc. bears investigation. fairly wet among the rocks. We collected a # of types of ferns. Several springs, running H_O, etc.

Yuqui
Phil
1972

Journal

17 km E of Yuqui by rd, Dept Central, Paraguay. This is the area trapped
13 Aug June 6 - June 17. Went back to Kolford. Set 32 snaptraps in low & forest-brush (15-20 ft high, some clear area thereabouts), on S of rd 20 traps in grassland on N of rd. guinea pig sign everywhere. Saw fox tracks, heard a fox (a coughing, whistling sound ~~Kolford~~ imitated & the fox answered the imitation) & Kolford saw fox. Ran traps at 7 & 10, somewhat, nothing. Picked them 3:30 AM, caught 2 Oryzomys (#305 & 306), & 1 Philander (#307), set in Kolford's traps. 2 of the traps in the grass were sprung but no mice. Kolford also had a few sprung traps. Night was warm (~65-70), clear, & w. a wind coming up in early morning.

20 km E of Yuqui by rd, Dept Central, Paraguay
after setting traps we drove to bridge over ~~the Salado~~ the river at the N end of the lake (R. Salado ???). Saw 5-6 large, narrow-winged bats flying near bridge (they seemed to come from under it, fly around a point & disappear). We set up one net & at 7:30 or so we caught a small Noctilio (# 308).

Journal

join are Gral Franco & Ave Kubitschek,
Asunción, Paraguay

14 Aug warm. I net over swimming pool, ~~spent~~ up lab afternoon. between 8-11 caught 1 Jasiurus ega & 1 striped phyllostomatid. left net up over night, caught 1 more Jasiurus in morning.

9.4 km E Paraguarí by rd, Dept Paraguarí, Paraguay

15 Aug. I km further down the rd from the site we worked on 13 Aug. day warm & partly cloudy (+thunderstorm clouds). arrived ~11 AM, left ~2 PM. there is a stream, small, on which tumble over rocks thru here. Lots of springs, ground marshy in spots. Veg very diverse both structurally & in sp. composition. The stream look imminently trappable. Driving around on the hills I trap would be difficult as the veg. is very thick. We set up a Mist net over the stream, & caught 1 bird (# 315, either a wren or a furnariid (!?)). I followed a path which parallels the stream for a few hundred feet. Much land is being cleared, revealing more rocks than tillable soil. I shot one large anuran - like Ligyd (# 312) around border of cleared area & dry brush. ~~on~~ At

9½ km E of Paraguarí by rd. Dept.
Paraguarí, Paraguay

15 Aug was under pile of dried branches & among dry leaves (#312). Killed a ? rodent(?) on the dry rocks exposed where the road cuts thru the side of the hill & caught a skink under rubble of the same cut, but in a damper place.

Jose Luis Prof. Franco & Jose Rubitschek,
Asunción, Paraguay

15 Aug after the success last night, had great expectations for the mist net by the swimming pool. Unfortunately not. Left up all night, caught 1 new Passerine - looks like a very small L. cinereus - in morning. Weather continues warm, mostly clear but threatening thundershowers.

16 Aug 5 km E of Asunción, Asunción Paraguay
Quinta las Melizas, in the Villa Mora area. The quinta is composed of a few ~~acres~~ carefully tended hectares bordered by a few more not-so-carefully-tended hectares. There are many trees, & most seem to have rotten interiors w. hollow sections. But most are small - 6-8" dia., so few animals/tree. Also most of the holes are high. I knocked

Mayes
Pine
1972

5 km E of Asuncion, Asuncion Paraguay

16 Aug

one L. ega (#322) out of a Mango with a stone at 11 AM was sleeping among leaves. In the attic of the quinta we found abundant bat droppings & 2 mummified glassaphageins (#318 & 319). We smelled, heard, & glimpsed a few molossids, but they scuttled into a crack where we could not reach them. Only put up two nets, but almost immediately we caught 2 Myotis (#320-321). Then one of the cats (there are several) caught a molossid (#323), & we caught 4 Artibeus in the nets (#324 & 325, & 2 released). a busy night — & promising. also saw 1 & identified. It was in ~~the~~ a hollow in the end of a broken branch, perhaps 1 ft in dia & 2' (at least we couldn't see) deep. Perhaps 10' off the ground. Dain up the trunk was a very clear worn area so the possum (#) apparently uses the hollow branch as a regular den. weather is still warm but grows cooler & is cloudy. Sirius., looks bad.

Myers
Phil
1972

Journal

25 Aug

320 km NW Villa Hayes by rd; Dept. Boqueron, Paraguay. also known as Fortin San Juan de Solazar, an estancia run by Rbt. Eaton. Flew out with Eaton, Peter Berrie & a pilot to look at Berrie's proposed study area in by the R. Verde, n Eaton's ranch. Weather was warm but mostly cloudy with occasional thundershowers. Wind 30 knots & more; flying was bumpy. 1 hr 50 minutes to get there 1 hr 10 minute to return. For the first 15 minutes or so to the W of the R. Paraguay the rivers are all in channel. The veg is mostly palms, but W. small clumps of forest & gallery forest along the river. For the next ½ hour the rivers disappear & we flew over flooded field Palms, less forest. In this place here & for the first 15 minutes we flew over what I first thought were bare water - circular bare areas w. a diameter somewhat greater than that of the palms (10 ± ft?). "Termite nests" according to Eaton. Or, could it be other nests such as those we saw building elevated nests of similar type at the Chaco Experimental station? As we flies further west, the amount of forest increases until ~~[illegible]~~ a few

Meyer
Phil
1972

Journal

320 km NW Villa Hayes by rd. Dept. Boqueron, Paraguay

25 Aug

kilometers before Eaton's ranch, the forest is almost continuous where it is undisturbed. The rivers move back into well-defined channels then gradually dry up. The Rio Verde on the S edge of Eaton's ranch, is at this time of year broken into isolated pools (crammed with fish, concentrated by the drying). Most, but not all, rivers & pools are salty. We spent 2 hours on Eaton ranch ~~making~~ a quick trip to ~~east~~ Berrie's proposed site on the R. Verde. Mostly brush, lower than the forest nearby. Very dense, fairly diverse. I checked a few palm-thatch houses for bats. Found some large droppings, some of which seemed to be composed of insect fragments. But no bats. Then the weather closed in & we left hurriedly. Berrie seemed to be favorably impressed. May be the R. Verde area looked good for ocelots, & that the large # of raptors bodes well for cats — i.e., as an indicator of adequate prey. ~~Saw one~~

Birds - Saw one large hawk, ~~a~~ circling, perhaps a savanna hawk, carrying a 3 foot snake. Saw several flocks of ~~parrots~~ but did not see the Chaco specialties

5

Myers
PhD
1972

Journal

320 km NW Villa Hayes by rd., Dept. Boqueron, Paraguay

25 Aug Station 2 months ago — a black-necked stilt, a large yellow-legs — like sandpipers, flocks of small yellow vireo or tanager types. Migratory?

29 Aug 9.4 km E of Paraguarí by rd., Dept. Paraguarí, Paraguay netted for 2 hours, mid-morning. weather cool, clear. caught a violaceous quail dove, which I released, & a pale-breasted thrush #326. There is a culvert under the road, about 4' dia., which I explored for bats & found roosting. Looked good. Upstream w. running water, so expect no droppings

1 Sept 17 km E of Ligue by rd., Dept. Central, Paraguay cold, clear. arrived 2PM, set up 4 nets & set out 50 snap traps in low forest or brush. caught 1 Oryzomys (?) - small, in a wet, reedy place. 6 traps sprung & dragged. Up saw a fox, which was probably responsible for a number of birds. #s 328-336, including the following: lesser seed finch, red-crested finches, masked gnatcatcher, & rufous hornero plus 2 unidentified formicariids & one ♀ formicarid. released a blue-grey tanager & a tropical gnatcatcher (caught at same time & in same place as masked gnatcatcher.)

Myers
Phil
1972

Journal

Cerro Santo Tomás, 3 km E Paraguarí, Dept Paraguarí, ~~Paraguay~~

3 Sept. Weather clear & cool, but warmer than it has been (low 70's). Drove down with Juan G.-M Chase & wife. After several inquiries Juan G. determined that there was a "gruta" in Cerro Tomás, the "gruta del Santo Tomás", of some religious note which seemed worth visiting (for bats). This is a very similar place to the location 9½ km E Paraguarí, but to get to the cave one takes the road to Escobar rather than to Pirebebuy. Cave is about 400 m up the side of one of the abrupt rocky hills which dot this department. appears to be formed by the rocks separating, rather than by volcanism or erosion. Only very tiny stalagtite & dark molassis strung at entrance. The cave goes in about 50 feet, & deep perhaps 20. There are cracks & very narrow (impossible for me) shafts leading up & away. There is a trickle of water at the rear. There were bat droppings in many places but nowhere were they thick. Some had the black, tarry appearance of vampire feces. The only bats seen were captured, 3 of which are

Myers
Phil
1972

Journal

Cerro Santa Tomás, 3 km E Paraguarí,
Dept Paraguarí, Paraguay

3 Sept. probably Eumops auripendulus. + they were clustered tightly together hanging from the ceiling at the very back of the cave. Not torpid — very alert when the light struck them, yet not difficult to capture with the net. 2 ♂♂ & 1 ♀. One of the ♂s (# 339) was heavily bitten in the ears & wings while in the bag, & seemed to have a deformed nose. She was reproductively inactive & too, while the other ♀ was very pregnant. ~~The cave~~ We were disappointed in general - looked like the cave should have more bats. We asked 2 ranchers about other caves, or places where bats are abundant. No one knew of more caves, but all said that bats were common — 'flying' (as bat) a skunk under the bark of a burned dead tree. Saw a captive marikey (a cebid) supposedly captured locally. Owners said they were common as were game such as peccary & deer.

Corner Kubitschek & Gralmino Franco Asunción,
Paraguay third day of hot, clear weather.
6 Sept temps in the 90's. For the first time the rufous collared sparrows are really

Myers
PhD
1972

Journal

corner of Kubitschek & Grabsimo Franco,
Asuncion, Paraguay

6 Sept Singing — not just isolated songs but continuously, & many birds. The birds we caught near Fuque on 2 Sept. were ~~all~~ molting (some) but a couple of the ♀'s had fairly large ovaries, tho certainly no follicles larger than 2 mm. Today a neighbor owned a Didelphis (which) caught. It was a ♀ with 8-10 young in its pouch. The babies were ~~about~~ 5-6 centimeters ~~CM~~ ER, but eyes weren't open & they were hairless & tightly attached to mommy. The pouch was so tightly closed when I first grabbed her that I had to probe around to find the opening

~~Chaco Experimental Station~~, km 295 NW
~~Villa Hayes~~ by the Dept. Pte. Hayes, Paraguay

7 Sept. We left Asuncion 11 AM in Chevy carryall driven by Macchi w overnight, schoolteacher, her baby & nursemaid. Arrived here at 4:30 after several stops. 3 ♂♂ armadillo, & a grison seen alive & numerous ♂♂ & 3 of the smaller ant-eaters seen dead on road (small one called carguré & is not an oso hormiguero. Hot & clear all the way, tho the day dawned overcast. North wind. Between km 200 & here there are lots of blooming

Wupey
Pue
1972

Chaco Experimental Station, 295 km NW Villa Hayes
Hwy rd, Dept. Pte. Hayes, Paraguay

7 Sept. Labeburya (Capybara) — yet Macchi says that 5 years ago there were none. Certainly not known to my people. He says is "ecologic change".

8 Sept. clear & hot. 100°F by 11 AM. mid. above 9 — talked to a rancher Sr. Gonzalez who has an estancia 3 km SE of Pzo Colorado Hwy rd. He said the first they saw of rabies was 4 years ago, when several cattle died. They visited as many hollow trees as they could find, cutting & plugging opening w. mud. No more rabies since. They do continue to see evidence of vampires feeding on horses & cattle, however.

Macchi says there are bat caves near Tobaté, north of Caacupe.

5 18' nets stretched across dirt road leading thru low (crest. 7:30 PM — 5 tiny molossids, 2 Eptesicus Myotis temp ~80°, partly cloudy. 10:PM - 4 Myotis temp still 80°, but increasing wind & clouds.

9 Sept checked 6:00 AM — 1 tropical screech owl & 1 unk. flycatcher. overcast no wind, temp ~80°. bats are slightly fat & all 4 of both types pregnant — 2 Myotis w. 4 seedlings! 4 of the 5 ♀ Myotis had closed pelvise — multiparous? would be neat... saw a hummingbird

Myers
Phil
1972

Journal

Chaco Experimental Station, 295 NW Villa Hayes
by rd. Lope Pte Hayes, Paraguay

9 Sept For the first time in the Chaco. Mosquitos bad. 5 nets out, 1 over ~~dry~~ small pond near woods, 3 perpendicular to wood, jutting into field, & one across trail thru woods. Wind has switched to S, & temperature much cooler - in 70's during day, ~~70's~~ 68-70 in evening (measured). Partly cloudy, sl - mod. breeze. No bats. Few seen flying.

10 Sept Put up a dendrocolaptid & flycatcher from the nets. One of the cowboys had steel traps out for cats, & caught a fox which he gave to me (#354). Trap was set along trail in woods. Foxes are certainly common. This one was moderately fat. He took a tractor, ~~rode~~ then cleared across the W side of the hwy (part of the station we'd not seen). Not much different from anywhere else. A fire set by one of the neighbors had jumped the fence & was burning nearby, so we walked over & have a look. Mostly grass burning - Trees not affected. Burns fiercely for a few seconds & then passes. Soil is barely warmed. Lots of insects scared up, & apparently mice, snakes, &/or frogs - there were numerous large raptors sighted at the edge of the fire & in trees nearby, savanna hawks, caracara, etc. Evening ~~cooler~~ cooler - 10 PM temp 60°F. Sl breezy, partly cloudy.

Journal

Chaco Experimental Station, 295 km NW Villa Hayes legd.,
Dept Pte. Hayes, Paraguay

10 Sept 6 nets set along road, then / dusk almost
same site as 9 Sept, in order to see why he
failed to catch anything on 10 Sept was place
or weather. Caught no bats tonight either -
apparently they just don't fly when it's at all
cool. Light at dusk we did see a couple
small spotted cat & a grison (?) along
the road about 9:30 PM. Heard thuffle
& grunting that was probably a large armadillo.

11 Sept cool. released 2 dendrocalptids (like 352), 2
furnids (slaty thrush, rufous bellied thrush).
cool in morning, warmer (80's) in afternoon.
netted birds for a while in AM - very poor (started
late - around 9:30). released a rufous harvero, kept
a wren? #355. Ortiz brought in a tatu bolita
caught in a steel trap, & said that one of the
other men caught a gato montes (for which the
traps are set. skin value = G 700). Asked Macchi
about skunks - common he says. Also about
aguará guasú (pampas wolf) - says used to
be more common, but still not rare! a Mazet
or so ago they were awakened several times
one howling. Set only 3 nets all over
ponds near houses. Saw a few bats.
air temp 8:30 PM = 71°F. sl breeze (very sl.), partly
cloudy.

Myers
Phil
1972

Journal

Chaco Experimental Station, 295 km NW Villa Hayes by rd,
Dept. Pte Hayes, Paraguay

12 Sept | 1 ~~hr~~ in vets. Not even any birds. Explored N of bldings. Older fields w. brush coming back, pile of dead wood, very dense, very nice monte. Lots of pineapple tree up to a foot dbh, some old, dead & hollow. Followed a foot path which was heavily traveled by procyonids, & foxes & armadillos. The brush piles are loaded w. armadillo holes & scratchings. Also guinea pig droppings & runways. They are in the process of burning off some of the brush pile — burns very intensely & leave the soil baked. This does kill nearby trees. Still, the monte does not burn, the fire reaches right up to it's edge, & the ground is shallowly leaf-covered. Rain in PM & again in PM — clouds from South. Temp in 70's. Set 50 snap traps along brush piles & in grass, & one pitfall trap along trail between rest. No net due to rain. Macli & Orliz took a dog after armadillo in late afternoon — dog bit back 2 later'yr. Saw one w. hit setting traps. Macli says dog ate out when it rains. Very fat.
There is quite a lot of stuff blooming.

Myers
phd
1972

Journal

Chaco Experimental Station, 295 km NW of Hayes by rd. Sept. 12 to Hayes, Paraguay

12 Sept. Tapecho, Para todo, several meimosoid & papilionaceae legumes & tree, & many kinds of herbs. There is about the same amt of ground water as there was in June, tho the level fluctuates considerably w. rain. Lots of mosquitos — specially right after the rain. evening warm - low 70's. & rainy (off & on).

13 Sept. 23 mice in traps. 2 Rhodon types were so badly damaged (heads chewed off) that I pitched them. Rest are #s 361-381. 10 oryzomys, most abundant of 3± types ... about ½ of the traps were set in grass, the other half in brush heaps in the midst of the grass — habitats in distance a matter of a few feet apart.

type mouse	# caught grass	brush
like 370	6	1
" 367	2	3
" 364	?	? = 4 total, either 4-0 or 3-1
" 371	0	3
oryzomys	1	0

Many traps sprung & dragged, probably by armadillos. Bad ant damage to the mice, & most were pretty rotten when I stuffed them. Probably caught early in evening.

today is warm (70's), overcast, w occasional very light rain.

left traps open, reran at 3:30-4 PM. In

Myers
Phil
1972

Journal

Chaco Experimental Station 255 km NW Villa Hayes
Legrd Dept Pte Hayes, Paraguay

13 Sept Ferrets caught 5 like 370, 1 like 364. In grass caught 3 like 364, 1 like 370. Some were still warm, 2 were still alive. Looks like we lost some info (see chart previous page) – but generally the grayer mice, like 364 seem to be more diurnal & to stick more strictly to grass.
5 Bat nets out – 3 along edge of field & forest 2 along trail thru dense forest. Caught 7 molossid & 1 Myotis, 10 PM – air temp 68°F. clearing sl. breeze. Saw 2 foxes, shot 1 (♂ #394) It was moving in a burned area along the edge of the forest. One gate mo[illegible] #392 also collected, further along same [illegible]. Went out w Macchi & a dog earlier, saw one medium sized ant eater – #393 – in middle of field (the dog found it). Also saw 2 Mazama deer. Busy night.

14 Sept clear & warm. 2 birds in nets – one cardinal, one blue tufted starthroat. both released.
threatening clouds by afternoon but cleared finally. Macchi says it will rain. – and stiff wind in evening & late afternoon. Temp in 90's, humid. Macchi & friend went hunting, brought back 6 charata a white tipped dove, & a tatú ja evening – set nets along same road as were set 8 Sept.

Meyer
Phil
1972

Journal

Chaco Experimental Station 29 km N of Villa Hayes
by rd. Dept. Pte Hayes, Paraguay

14 Sept 9 PM no bats, tho Swallows flying. Air temp 81°F. stiff wind, humidity continues

15 Sept AM. 1 Myotis, 1 tropical screech owl, unidentified nightjar, & one bat pygmy owl. All birds released. Drove up to Berrie camp on the Rio Verde about 15 km N of here. Much wetter sandier soil. Vegetation & habitats more diverse by far. They've been collecting madly - have nearly 200 mammals including some small marsupials we don't have here (Monodelphis is common, & there are many Marmosa). They see small cat & puma tracks & Berrie saw an ocelot. Tapir tracks & tapir & capybara skulls found. They've also collected a Agouti & a Tatu pozi nests of which we've seen here. They & rodents, armadillos, etc. looked similar. Also reported seeing two maned wolves. Saw one (rotalid - a Bothrops? - about 4 feet long in the entrance of a large hole near the R. Verde. They've collected what may be 2 coral snakes. Also Mazama Tamandua Edocyon (?). But they do very little as yet.

They have collected a pair of vampires, &

Meyers
Phil
1972

Journal

Chaco Experimental Station, 295 km NW Villa Hayes by 26,
Dept. Pte. Hayes, Paraguay

15 Sept. on two night, thieves have been attacked. Day hot (~100°F), windy, hazy. Walked up R. Verde with Berrio for a few hundred yards. Very salty w. stagnant water, very few cows also - broken into discrete ponds. No current. There are fish & crocs accordg to Berrio. certainly there are plenty of tracks on the bank - small cat puma, fox, Procyon cancrivorus, tapir, deer, etc. Wind picked up in evening. They burned the fields where we trapped 12-13 Sept - fierce, high fire. Too bad. Smoke plumes visible for miles. Macchi & friend went fishg in the bulldozed cow ponds. Caught a number of 10-12" fish, large pectoral fins & a big mouth full of unfriendly teeth. Looked primitive & funny. Not a catfish at all. Macchi says they bulldoze the ponds & the fish appear - no need to plant them.

16 Sept Very stag dry wind. Mean temp 95°. Quite hazy, high clouds & smoke. PM - walked N to fence with [illegible] & Berrio's two assistants. Saw several tinamou & chachalaca. Very dense, damp monte for most of this area, changes into open thorn forest in places. Due to

Journal

Chaco Experimental Station 295 km NW Villa Hayes
Hayes, Sept. Pte. Hayes, Paraguay

16 Sept Salinity difference in soil says Machi
carterides hot & windy. (2 pitfalls per pkg & skink & a large tortoise) No nets or traps.
Velzo is interested in the tatu jui -
nine banded armadillo, only here they
have only 8 bands. This would be an
ideal place to study them - high #s,
concentrated in Enterolobium tan /
burrow too deeply due to hard soil & high
water table. Course of vegetation
& their apparent obliviousness to
their surroundings. Same for tatu bolita.
17 Sept Cooler, warm & windy. AM went
for a walk same as above but turned
E & followed fence row to where it angles
SE. Most of this is thorn forest or mixed
some old palm swamp & altered grassland.
PM - returned set up 6 nets across
trail & across clearing per fence 4 PM
temp 71°F light wind clear alternating
w. overcast (rather sudden change). Caught
1 Pyotes 3 tropical screech owls, ~~=~~,
Cadet tailed ~~flycatcher~~ grat sucko a creamy
bellied tiruri & a golden hummingbird
& a golden winged cacique. Set the sted
trap in a narrow animal path & for
one & it was sprung & dragged.

Journal

Boqueron

3 km NW Villa Hayes, Dept. Presidente Hayes, Paraguay

18 Sept Continues warm, wind strong + from North. PM - drive to Berries Camp, but put 6 nets: 2 1 to edge of forest, project out into pasture, 1 across road, 1 [illegible] over water (a small fresh water pond, used a dugout which was sitting nearby to set + set the net), 1 near tree (by building + 1 to forest, stick out over edge of lake. Shot a rabbit in thorn forest area. Machi says they are common where soil is sandy. Saved only the skull + the rest is very shot. Ground squirrel, stink, black + white, + nefous pcs. pattern + literally no tail. Saw a caiman in the pond; several of the tree-climbing lizards on bushes. 10 PM - very windy, hot - temp 80° F (brake thermometer). Just as I was taking Nelasses in a net 1 to field, released all. Wind knocked over one net.

19 Sept Continues windy, hot temp ~ 100° F at noon. Retrieved 6 mist nets, 2 had been knocked over by wind or horses (1 to field + to lake) one had been dragged down into lake by a combination of hot wind + fish. The latter was completely

Journal

310 km NW Villa Hayes by rd, Dept Pte. Hayes, Paraguay Boqueron

19 Sept. ~~Hayes, Paraguay~~
rained. One partial Noctilio ~~leporin~~
& plus an extra pelt very ~~tail~~
chewed. Not enough left to put up or
even to take the skull, so I gave the
remains to Berrié' boys to ~~prepare~~.
2 more tiny Molossid, ~~a bat~~
cream backed thumb, 5 ~~five~~ bay-
winged cowbirds. Next time must
learn to place nets in places where
wind is minimal! Saw a small bat,
several kinds of ducks etc by lake.
Looks like a 2nd kind of Tinamou in
the fields - appears to be the common
perdiz (Nothura maculosa). Berrie people
now have a Felis geoffroyi w. a radio
collar.

20 Sept. Chaco Experimental Station, 295 km NW Villa Hayes by rd, Dept. Pte. Hayes, Paraguay
found out this morning that elevation
here is 150m & that difference between
highest & lowest points is only 2 mm.
Rain. night was warm (80+°F) & rain
started about 4:30 or 5 AM. 5 shavers.
about 9 AM set out 2 nets for bird
along road to the lagoon (north).
One golden tailed saltator caught & put up;

Hayes
Phil
1972

Journal

Chaco Experimental Station 295 km NW Villa Hayes
hyd. Dept. Pte. Hayes, Paraguay

20 Sept one golden fringed lacquer released. Photo of blob lagoon. due to rain rd closed, so departure delayed at least 24 hours. walked E the trail leading there went at the NE corner of the NE cleared field & set 50 snap traps, all in heavy 'mont'. checked 10 PM, caught 5 A kodaki & 1 ptylloline. weather clearing, cool (61°F).

21 Sept Traps run 6 AM, caught 11 more akodonts. Most are of the large, brown type so common in the field & I set up only a few of these. seem to be uliginitus. also caught a couple of a smaller, redder type, more grizzled akodont, which I put up. No obvious difference in habitat in which traps were placed. This time I did catch mice along the edge of the patches of bromelia. 4 traps set low in likely looking trees produced nothing. weather partly cloudy, cool (low 70's).

1 PM - Machi saw a couple of deer along the road. say they often come out to sun after a rain. Jared & I walked to lake & back by road. W side of lake is different - long area of brushy, trashy, grassy stuff - should be trapped. Evening cold - in 50's.

Myers
Phil
1972

Journal

Chaco Experimental Station, 295 km NW Villa Hayes
Loyrd, Dept. Pte. Hayes Paraguay

22 Sept left 9:30 AM for Asunción. Waited until ~12 in Pzo Colorado for rd. to open. saw a deer by rd. killed a large iguana (tegú guasú). arrived home 7:30 PM after delays due to rd & mechanical problems. Partly cloudy & warm.

corner Kubitschek & Generalissimo Franco,
Asunción, Paraguay

26 Sept warm cloudy. I net over swimming pool. 1 Nyctes & 1 Tasiurus caught around 7:30. Net last checked midnight. & nothing. Tasiurus net at 7:AM.

22 Sept

25 Sept I net up over swimming pool. 1 Nyctes around 8, 1 of the small, reddish Tasiurus at 12 midnight. dear & cold (~65°F).

Recoleta Asunción, Paraguay

This is house we're to move into at end of october. It is on the st. Choferes del Chaco, about a km of the Recoleta cemetary in the neighborhood called Recoleta. The house is old, & of an old style - high roofs, large rooms, masonry walls etc. It is on 2-3 has of land in a middle class to poor suburban setting. Many large mango, palm & avocados. There is at least one bat roost above a beam on the porch (as revealed by a large pile of droppings). An additional

Meyer
Phil
1972

Recoleta, Asunción, Paraguay

28 Sept it looks as if bats use the beams for night roosts (scattered droppings). No squeakings or Tadarida smell yet fresh droppings on the pile under the beams. Saw 5 very large bats — aribeus? — leaving a palm at about 6:20 PM. They were in the leaf bases & debris near the trunk, about 30' high. Put out 3 nets, 1 under the overhanging of the mangos, are at the end of a paved patio, & one on the porch near the beam under which bats roost. at about 6:30 we caught 4 Myotis 2 under the mangos & 2 at the end of the porch & at 6:40 we caught a Molossus on the porch. nets closed 7 PM All bats were in breeding condition (except the Molossus) & none had any fat to speak of — nothing like the gobs of fat we were seeing 6 weeks ago.

29 Sept. Set up 7 nets: 1 60 ft net & 2 30 foot nets, under & 2 18' net under the mangos, one 18' net at the porch, & 1 30' net at the edge of the patio. Clear, cool — ~70°F. For all this work we caught 7 English sparrows & 4 bats (all under the mangos): 1 artibeus, 1 small striped phyllostomid, 1 Sturnira, & 1 Molossus.

corner Kubitschek & Generalisimo Franco, Asuncion, Paraguay.

30 Sept a 10-bat night. Put up 2 nets, 1 over swimming pool & 1 over yard. Ran them about every 15 minutes. It eaches warm, ~75°F, & clear, & little wind. First captures (6:20) were 2 small molossid, then a couple of Myotis & large molossid (~7:30) with Tadarida not coming until later (~9). ~~Eto~~ One ~~Myotis~~ Eptesicus also later (~9). The two phyllostomatids were caught sometime between 10 & 5. Released one, an Artibeus ♂. I watched the net over the yard from about 6:10 to 6:30 PM. Bat after bat flew up to it & veered away as flew over. Several types distinguishable.

30 Oct increasing wind & lowering temps. caught one Eptesicus which I banded, tatooed & released next day

7 Oct (see 12 Oct) tailend (1 hop) of a cold spell which started 30 Oct.

8 Oct still cool (65°F), slightly windy. Put 5 nets up around house. Found one eptesicus floating in swimming pool. still alive. banded, tatooed & released the following day. cloudy, looks rainy. Sirikaelle feeding young in nest in front yard.

Mts S Tobati, Dept Cordillera, Paraguay

12 Oct arrived 9 AM. sunny, clear, temp in 80s. some wind. this is the area we visited on 7 Oct (no nets) to look for bat caves. Then we found several small, shallow caves, one of

Rui S Tobati legrd. Dept Cordillera Paraguay
which produced 2 Chiroptera & a gecko.

120a The caves are ~~in~~ on a cerro a long lay ridge of rock that looks like the product of ancient volcanism, but the rock is a sandstone. The soil where there is any is sandy, & the streams are lucid. At the base of the hills there is some tropical low forest but it is heavily cut for firewood. On top of the hills there is a ~~hilly~~ series of flat step-plains, up to several ha in size which support only grass & low bush except for a few trees along watercourses. Much of the surface is bare rock or loose sand. We pitched our tent in a sheltered area among rocks & low trees. We were met (serendipitously) by four high school kids on a holiday. They said they knew of a ~~big~~ cave nearby & would be delighted to take us there. We had been within a few hundred feet on 7 Oct. The cave faces W, & is at the base of low cliffs formed by slabs of rock, perhaps by a fault, underlays eroding away. Doesn't look either Volcanic ~~& Good~~ The passage is back 100 or 15 meters & barely, ~~even~~ walk bearing to narrow to ~~for~~ me

nursery
plus
1972

Journal

Luis Estobar's house, Dept. Cordillera, Paraguay

12 Oct to squeeze thru. But the main passage, which is last, is a low ceiling-ed room perhaps 30 ft ~~o~~ in dia. There were bats. Most of what we saw, & all of what I could catch w. a hand net, were vampires. The floor in places was a pool of thin black ~~matter~~ liquid feces & the smell, distinctive. They were both in tight clusters & individually spaced. Some were on the ceiling & some on the floor. They ~~do~~ seemed to prefer running as much as flying in crowding me. They flew in front of & around me, but did not leave the cave as we explored. I saw a number of smaller bats near the entrance but they would not allow me to approach. The large Chrotopterus were conspicuously absent. I kept 5 vampires. We returned in the evening to put net in front of two of the three exits. The first bats caught were small glossophagine, around 7:30. A few vampires ~~started~~ came out starting around 7:45 (after it became quite dark) & as the # of glossophagine dropped off, the # of vampires rose. I collected no vampires unfortunately I didn't look at them carefully until I'd released 10 or 12. When I then

Nuyee
Dec
1972

Inii S Tobalí leyra Dept. Cordillera, Paraguay

1200 I started keeping track of the nets - I caught a ♂ 1, no ♀'s. Several of the vampires, most of the glossophagine & the individual of the 3rd sp - r Carollia, all hit the net going into the cave rather than coming out. It is possible that they had left around the corners of the net & wheeled around. We quit netting around 8:15 PM - no point in catching more vampires. Set about 25 snaptraps & 2 sled traps up the hill & in the brush at the base of the cliff. oats for bait. night was warm & windy.

130 day dawned clear. warmed up into 90's by midday. ~~mod~~ windy. nothing in traps but the folded up net (closed but still suspended between poles) contained 4 more ♂ vampires, for a total of 130 & no ♀. I guess we caught around 20 vampires in all. evening - shot a rabbit. traps set in 2 lines - one along meadow & up along base of rocks, 1 thru riparian veg. climbed down to road & set up nets over some ~~stuff~~ medium sized pools in a stream which runs off the rocks. Saw lots of bats. learned that the valley is called MPOÍ CUÁ - Placed the bats -

Wyley
Plot
1972

Journal

Imi S Tobati legré. Dept Cordillera, Paraguay

13 Oct Net caught only 1 Ctenomys. Quiet in
~~14~~ 14 Oct longest drawn 8. Wind was increasing &
sky clouding over. Around 4 in the morning
a series of violent thunderstorms started
quickly drawn 8 + ×1. I suspect several
inches of rain fell. The streams, which
had dried to a series of isolated pools
are running & deep &, ~~as~~ have carried
several of my traps as far as the ties would
permit. Caught 2 large hystricomorphs,
an oryzomys, & an akodont(?). Had
ant damage to all but the oryzomys, who
was under water. Weather remained
partly cloudy & thundery all day. Temps
in 70's. Very windy - too windy for
nets. Put out 25 traps in a brushy
meadow w. a low density veg., but
which had a few rodent &/or armadillo
holes. & 25 down a rocky ravine in
heavy 2nd growth & riparian veg.
Towards evening weather cleared &
became cool (60's).

15 Oct Nothing in traps in meadow, 1 hystrico-
morph in the ravine. These
hystricomorphs seem to occur
primarily near the rocks, but I was
caught practically in a stream bed

Wyeth
Mar
1972

150 ct

I mi S Iobatí by rd. Dept Cordillera Paraguay
from the cliffs (50' at least). Rodent
density in general seems low. I suspect
that the Meadows are frequently
burned to encourage the growth of
a grass which we see being harvested,
tho I don't know why. ** There were
burned sticks to attest to some burning,
but most of the fields were ~~burned~~ of
new growth & of this grass & would
not show obvious signs of burning. If it
is the case that they are burned, then ~~the~~
that is a possible reason why rodent
density is so low.

Generally the birds are dull. Lots of
tyrants & sparrows. Flocks of a long-tailed
flycatcher among them. Few raptors,
mostly caracara, but I did see 1 or 2 buteos.
The greys that met us the first day saw
monkeys, & I saw fox sign. Probably
heavy hunting.

160 ct

corner Kubitschek & generalissimo Franco, Asunción, Paraguay
night warm & windless. temp ~75. clear, & but
not much seen or heard flying. Caught one
Casmerodius egg over swimming pool at 8PM, one
L. borealis in same net at 6:30 AM.

Myers
Phil
1972

Journal

230 km NW Villa Hayes Lyrd, Depe. Pte Hayes, Paraguay

22 Oct Estancia "Buen Amigo" belongs to Dr. Weiler of Asuncion. Run locally by the Mayordomo - called "Mayor" - & by Sr. Estigarribia. Roughly 25,000 ha, 8000 head of cattle 200 horse, 40 people at headqtrs including a group of Tengua Indians. Hard to say (& hard to find out), but looks like a couple thousand ha are cleared, rest is monte or swamp. The macho "siete puntas" passes near to house - 100'-200' across, 1.5' deep, little or no flow. Possibly fresh water. Elsewhere broken into ponds. Very little standing water away from the Riacho & associated dike - water is a problem during drought when up to 200 cattle a so have died. They do have an australian tank. Also bad problem with Prosopis reclaiming cleared areas. They are experimenting w. foreign grasses of several kinds (pangola, buffle, elephant, bermuda, etc) but so far plantings have been primarily for seed & involve no more than 100 or 150 ha (not sure whether this includes projected plantings). None of that which I saw shown looked particularly happy. They have two trucks with cabs, even diesel range & have mangos, papayas, & guavas. These grow with minimal help - apparently a small amt of organic matter (cow dropings & leaves) is mixed

Iwyer
Phil
1972

220ct 230km NW Villa Hayes to Desm. P. Hayes, Paraguay
in which the trees are planted, & no more. No
garden now, but did have one. The soil is
a olive clay which Estigarribia says "goes" 10'
deep. No sand underlayer as at exp'tl station.
Most of work done by hand - they have a
broken bulldozer & no tractor. Peruvians
are cheap at 1-1,500/month. cowboys to
at 3,000/month.

Estigarribia talked of a severe drought in 1970.

Salty - Horses & cattle show no signs of
vampires. 6 or 7 years ago rabies was epidemic,
but drought under control (they say) by
stopping up holes of holler trees. There are
known roosts nearby which are allowed
to go for a few months, then burned out
& poisoned. Apparently the bats come back.
Unfortunately the description of the bats killed -
"muricilage colorado" - fits Noctilio better
than Desmodus & My description of the
gray & white Desmodus drew blank stare.

flock of very white roseate spoonbills
flew over as we came up, around ½ way
from Villa Hayes.

6PM - set up 2 nets, both by holes in quebracho
trees which are worn smooth & have long black
stains running down from the opening. Holes are
2.5" in dia., one is in trunk 1' dia, one in branch 8" dia.

Myers
Phil
1972

Journal

230 km NW Villa Hayes Ltyd. Dept. Pte Hayes Chaco Paraguay

220ct The cue in the trunk is 4' off of the ground, the end in the branch, ~20 ft. Night warm, 85°, mostly cloudy changing to overcast, threatening rain with thunder & lightening - but did not rain. Humid. Wind medium with occasional gust, comes from N. First bat - Noctilio labialis I think - hit at 7:25 PM. Very quickly I caught about 10, plus a small yellowish vespertilionid I've never seen before. Look remarkably like tiny Noctilio. They all left in a bunch, ~~50~~ ~~the~~ & many missed the net. By 8 I started to catch bats, returning to the roost, or at least to the tree. 5 branches completely crammed with insects. Most of these I tattooed rather than adding them to the already overfull bat bag. Quit around 9:30 PM lots of foxes crying. little pit in bat. caught one small black Myotis in bedroom.

2307. Found a roost under the sheet-tin roof of one of the main bldgings. set up 2 nets blocking as nearly as possible exit, & one net in yard nearly. At any time during the day rattles & squeaks could be heard from the colony. 7:15 PM temp 94°F. First bat out at 7:30, missed. First capture in net away from house at 7:35, two small molossid like those from the experimental station, which I

23 km NW Villa Hayes, Dept. Pte Hayes, Paraguay

23 Oct. released. 7:45 caught first bat from roof, & from then until 8:30 I was busy. Caught 36, including 2 small molossid which I released unmarked, & 1 large molossid which I kept. I kept 10 Myotis & banded tatooed 23. Unfortunately, those that I kept turned out to be not 10 but two sp. so I can't be certain that all the banded individuals are the same. The two sp. of Myotis & the large molossid apparently use the same roost, or at least adjacent parts of the roof. Must get incredibly hot. One of the released molossids was a preg. ♀, the other a scrotal ♂. Quit at 10 after not catching anything for ½ hour, & not wanting to recapture the marked bats as they returned. 10 PM temp 88°F. Night clear & windy. bats w. little or no fat. After skinning the bats, & finding most of the ♀'s to be lactating I suspect that I had handled the tatooed ones a lot (i.e., squeezed the nipples w. forceps) more bats have yielded milk. Most had enlarged nipples but (still largely covered with hair. Just starting to lactate? Mammary tissue quite swollen.

24 Oct Hot, clear, strong wind from N. walked to quebrada has wide Noctilio roost. Thermometer 6" up hole in tree registered 31°C, while

Nuyen Pleb 1970

Journal

64

230 km NW Villa Hayes by rd. Dept. Pte. Hayes, Paraguay

24 Oct temp in shade outside is 41.5°C (108°F). Hole is charred, I believe that ~~a~~ effort have been made in the past to burn the bat out. Found several other quebradas, with suspicious holes, one had a pile of bat droppings on the ground ~~below~~ below. set nets over river in a place near the Indian Toldo where the river is about 100 m across. I put a 60' net ~~across~~ out from a point, & a 30' net bisecting a bay. In most places the water was more than chest deep so netting was not possible & I was not too happy about the placement of the nets. Bats started flying at 7:30, air temp. 93°F. Sun set at 7:00 P. Caught a molossid right away, then late 2 Noctilio labialis & one of the gray Myotis. Nothing more. Lots of birds - inc large white fowl, & a flock of 23 roseate spoonbills. Numerous flocks of ducks flew by at dusk - 20 or 30 ducks in all mostly in 2's & 3's. at 9:30 I saw a crab eating 'coon along the shore. There are lots of frogs, & it seemed to be stalking them. Despite my light & my proximity (50') it happily went about its business. Lots of small crocodiles in water also. Gave up in disgust at 10 PM air temp 86°F. Almost no wind at first, & by 10

Journal

230 km NW Villa Hayes Dept. Pte Hayes, Paraguay
Then was a slight breeze from the north.

2500 hot. very little to do. strong N. wind. PM - nothing to roost under the tin roof again. Bats came out a little late this evening - no captures until 7:50. Is this due to my netting? There were bats out flitting around the porch at 7:35.

Retiro Mandeyú, 20 km SW km ~~200~~ 205 of Transchaco Highway Dept. Pte Hayes, Paraguay

2600 This is a retiro on a Weiler's estancia. Beautiful country - damp here, lots of ground cover largely bromeliads & palm savanna alternating with high, deep forest. I found a number of ~~bottle~~ bottle trees several of which looked promising. One gourd had a hole about 15' off the ground which was identical to nest-holes where we caught Nyctiles 4 nights ago. worn weight position etc. The house at the retiro has a corrugated tin roof & wooden planks & it is loaded with bats. During the hot part of the day some leave the space between the planks & enter a dark room, staying near the beams in the ceiling. I made out at least 3 species - the small black Myotis, the medium gray Myotis & the medium gray Molossus, ~~sunda~~ all similar to what I saw under the roof at 230 km. The Myotis are all clustered together, the single Molossus is apart. Near the house is a "para todo" tree (yellow flowered bignoniaceae)

Journal 66

Reptiles 1972

Retiro Mandeyú, 20 km SW of Km 205 on Trans Chaco Highway, Depto Pte Hayes, Paraguay

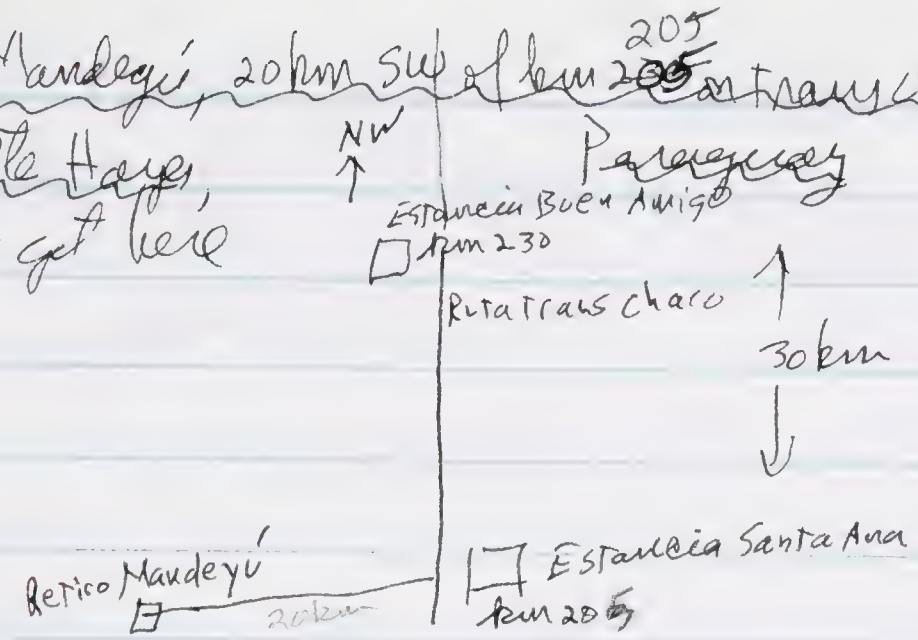
26 Oct with a small hole in the trunk. By shining a light in I made out several of the large brown Molossus bats that were common near campsites & turned up over the river at km 230. Air temp at noon 37°, temp in dark room & in hole in tree 37°. Also. Strong N winds, partly cloudy skies. 2:30 P - temp up to 41°. 40 in house. about 3x as many bats - more than 100. Several young - 2/3 adult size - visible. Black & brown, & gray (2 spp?) mixed. could they be the same sp? Molossus are now mostly but not completely in a segregated group on the opposite wall. Walked for about 3 km down a burned area & fence line. Beautiful area! This is much denser & higher woods than I've seen before. Many trees over 60'. Thick undergrowth of grasses, bushes, & bromeliads, feet with more of the former 2 & less of the bromeliads. Lots of big trees - 4 ft as much as 3 feet & lots of hollow trees & limbs. Picked up a mummified legless lizard in the burned area & the skull of a tegu geraski (one of these) in nearby. & fragments of croc. jaws common but no complete skulls. The skins of the tegu geraski are worth about $.00, & those of a 1.5 m croc $.400. No wonder they're hunted. Game abundant here, they say. Map shows

May
Pleo
1972

Journal

260ct

Retiro Mandeyú, 20km SW of km 205 on transchaco highway,
Dpto Pte Hayes,
How to get here



forest is mixed with palms. Most of the
large trees are quebracho & sauruja (with a
spiny trunk). When they clear they
leave only the quebracho (which is abundant) - which for its valuable
wood or simply because of the difficulty in
cutting it I don't know. As a consequence of
leaving many large trees
this & of the tendency for 2°d growth to
be dense stand of thorny Prosopis one
tend to think that the climax vegetation
here (if there is such a thing) is the very common stunted thorny
brush overlain with quebracho. Most of it
would probably eventually return to
the more diverse mata however, edaphics
permitting. At least one can easily make out
a successional sequence with these steps:
grass, grass & palms, prosopis thicket enters
the bromeliads & some other brush, buildup
of organic matter in the soil gradual
addition of other species. The first stages
go quickly - to Prosopis in 2-3 years.
The rest - guien sabe? It would be interesting

Myers
Phil
1972

Journal

Retiro Mandeyú, 20 km SW of Km 205 on Transchaco Highway, Dept. Pte Hayes, Paraguay

26 Oct to know what this was like before fire became an important factor. (Prior to the white men, Indians apparently set fires for driving game). Certain of the palms & grasses are apt for an area which is periodically burned. The Prosopis also seems to manage to survive most fires. Possible lightning is my guess also — as was before man. Certain are fires electrical storms.

Should also note that the mounds here - at least the most developed mounds - seem to burn while the grass fires at the experimental station burned to the edge of the (less developed) mounds & stopped. Here much of the undergrowth is burned out & apparently many of the larger fires are killed particularly those with hollow portions w/in reach of the fire.

There are 2 shallow ponds & a well w/in a few hundred yards of the Retiro. Nearest water other than these is said to be about 5 km. So I set 4 nets, 2 over each pond. It was a mistake to set so many. But, started mist at 7:20, well before dark. The gray horse mystes were first. By 7:30 all 4 nets were full. I cleared the bottom trammel of all 4 nets first & lifted them well above the water. Then I

Myers
Phil
1972

Journal

Peteiro Mandeyú, 20 km SW of km 205 on Trans Chaco hwy, Dpto. Pte. Hayes, Paraguay

26 Oct dawned me set after another, closing it when I finished. Took me until 10:30 to get all sets closed – & I caught several bat in the closed sets. I had the impression that the molossids hit the sets early & stopped early. The Eptesicus, Tasiren & Myotis never quit. The air was thick with bats – I didn't catch but a small fraction of what was there. Weather was cloudy – temp 85° no wind, humidity seems high. Lightning in S, which portends a shift in weather & rain. I closed 52 molossids of 4 species & kept 4. 13 Tadarida brasiliensis 6 dissected but not put up. Myotis released, 1 (?) kept, 16 Eptesicus released, 14 put up, 7 dissected but not put up. 3 Tasiren sp put up, 6 released, 6 dissected & not put up. 6 ? little brown Myotis put up. 1 reddish Myotis put up. Grand total of 56 molossids (4 sp), 79 vespertilionids (5 ± sp), or 135 bats in all (+4 ruined nets).

One of the gauchos gave me a yacquarundí skin.

27 Oct threatening, cool. Temp in 70's. All day skinning.

~~28 Oct rain 10:30 AM temp 60° F~~

~~230~~ km NW Villa Hayes, Dpto. Pte. Hayes, Paraguay

27 Oct returned to base – increasing cloudiness, cooler.

28 Oct rain. 10:30 AM temp 60° F. 3:30 PM down to 58, & all night down to around 50°. Dr

230 km NW Villa Hayes Hwy. Dpto. Pte. Hayes, Paraguay

28 Oct The evening many swallows came & roosted under the roof which overhangs the building. These have been here since before I arrived, yet this is the first night they roosted w/ in sight. Very reluctant to be dislodged. Said (by the comisario) to be due to the cold. At 4 PM we found one swallow in one of the rooms, along with a tapiti bat. The Myotis under the roof have greatly reduced their activity — just a few squeaks & scratches. Overcast, drizzle. Hard rain for a few minutes - enough to leave puddles & drive the dust down. But the soil is still powder dry an inch below the surface.

29 Oct Dead swallows - 4 or 5 - under the roof. also several torpid. There are some flying however. I picked up one torpid one & placed it on the roof, think it would warm some. But the one disappeared & it's still chilly, & an hour later the bird is dead and is dusk. 7 AM temp 58°F. PM - went for a walk, looking for Urubu. Saw many killed one. Saw a badly emaciated up Crab-eating Dog (Aguará-popé) near a muddy water hole, & picked up (& saved) a Myiarchus skull. Parrots (monk parakeets)

Migry Plus 1972

Journal

#1

230 km NW Villa Hayes leg rd. dept. Pte Hayes, Paraguay

29 Oct are camp in right next to horses + eating the drying meat on the perch. I found a tree in which several of these have their nests — a mass of sticks + twigs 6' in dia. w. several well-formed entrances. I had the impression (out of the corner of my eye) that more than two birds left a nest — are they colonial?

30 Oct Drove to Pirahyú, km 224, @ Shell station. They had a no. of peccary skins an alligator skin, a couple of tame animals, Magüere (Tujujus) striking plumage mostly black), + a small 30" long baby tapir (Laboreví), fawn color + spotted. Jane + curiously poking at tapir with the massive, hooked nose. The Misiones tot Americá showed up at 2:30 + I left. Unpleasant trip — problems w. sheep + pigs on the road, drunks arrive Villa Hayes too late for ferry + spent night setting in bus, + fog in A'sn prevents ferry from operating.

Recoleta, Asunción, Paraguay

3 Nov night temp in 70's. partly cloudy, sl. wind. 3 nets around house + mango, inc. 60 ft net. caught 4 Vampyrops + 2 Eptesicus. all but one

Vargas
Phil
1972

Recoleta Asunción Paraguay

3 Nov Vampyrops (which died & was put up) tatooed & released. Vampyrops- 1♀ preg, 1♀ lac, & 1♀ nonly. The one E. Epteisicus was lac, the vag was wide open & bloody. Postpartum? Nets opened by W. caught the Epteisicus right after dark, checked for last time at 10:30, & all 4 Vampyrops were in net at 6:30 AM.

Nov 4 Same nets. Nothing by 11 PM. 1 Epteisicus, 1 Vampyrops, & 1 Artibeus at 6:30 AM

Nov 5 same nets plus 2 enclosing the beam on the porch under which bat droppings appear. Caught 4 Epteisicus (one escaped) at 7:30 warm (85°), rain threatening. Also caught one Artibeus about 11, under mangos 1.6 km NE cor of Ave. Gral. Genes & Ave San Martin Asunción Paraguay Isla de Francia.

11 Nov. 70°F. Had been cloudy during day, but cleared & turned cool. Humid & breezy. 4 nets. Caught, Epteisicus & 1 Sturnira. Lots flying all high. This seems a poor place to net — lots of bats, but nothing to bring them low enough to net. There are a number of trees blooming - at least 5 Caricaceous species. So far only the papayas have ripe fruit.

12 Nov returned in AM to rob honey from a stingless bee nest. The nest ~~was~~ looked like one of the large black termite nests

Meyer
Mar
1972

Journal

1.6 km leg rd NE jct of Ave. Gral Genes & Ave. San Martin, Lomerias, Paraguay

12 Nov built in the crotch of a branch of a tree. This was an old one & in the wind had apparently broken off. I built a fire next to it (downwind) for smoke but it seemed to have little effect. After tying strings around my shirt sleeves & pant legs to keep the bees out, & donning a mosquito head net (made for mosquitos) I attacked the nest with a machete. Outside was very solid - it took a number of blows to work thru the 2-3" crust. Inside was similar constructed but more easily crumbled & split. The yam were in cards like honey bee, build, but more papery & smaller. The honey was in cells throughout the rest, apparently built of mud & excreta. Some cells contained gobs of yellow pollen also. I removed several gallons of nest-piece, which we crumbled & put over screen wire. Eventually we collected about 4 or 5 liters of a very dark, strong-flavored, but delicious honey.

The expedition nearly ended feast as it started when I narrowly missed stepping on a guyrugyhó a crotalid (Bothrops?). I lopped off its head with a machete

Meyer
Phil
1972

16 km by rd NE jct of the General Genes & the San Martin, Asuncion, Paraguay

12 Nov Before deciding to keep it, I'd the specimen is in 2 pieces. This snake, which goes by the above common name or perhaps by the name Yacanimá (over local experts were divided about its identity) has a reputation for being the most dangerous in this part of Paraguay, despite its small size. It was on nearly bare ground under trees. DJ blundered in well with the sail & light leaf cover. Additionally I saw a number of lizards this time - something we had looked for before & not found. Both Teiids - like & Iguanids Tropidurus - like species are common. Same was true in the Chaco during my last trip - the lizards suddenly appeared everywhere. Where were they in June - September?

Recoleta, Asuncion, Paraguay

Landing up, Thunder & lightning. Tied together, 2 net pls and erected a net between 2 each pair of pole. Set it near a palm tree & where we had seen large bats leaving at sunset. We caught 3 bats, all molossids. 2 were much bigger than

Meyer, Phil 1972

Journal

Recoleta, Asunción, Paraguay

12 Nov. Very I've been catching (except perhaps one I say let in Concepción), so I kept them. Then them I tattooed & released. Freeze rain started about 9, continuing all next day.

13 Nov. 148 mm total fall. Streets a river, lots empty swimming pool full of mud & rainwater, etc. This really brought the frogs out. Bufo marinus are literally everywhere. In wet places they are deafening in the evening. I collected 3 other kinds around the swimming pool - #s 557-559, & 1 a strange, swollen, small-mouthed thing that has a call that sounds like an electric alarm clock going off (#s 560-561). Killed & preserved on 14 Nov. Also a small lizard which fell somehow into a wastebasket.

14 Nov

Entre Asunción, Asunción, Paraguay

Quinta Las Mellizas. overcast, drizzling at times. Warm. Lots of tree in flower - at least 3 common sp., all unknown. One in fruit - small, round (1" dia), green, sweet fruit. 5 Net rep. 6 Artibeus (all in net near the fruit tree), 3 large molossids, 2 tiny molossids, 2 Vampyrops,

5 km E Encarnación, Paraguay

14 Nov 1 Sturnera. D tattooed all the molassids & 1 Artibeus & released them from Recoleta. 1 Artibeus escaped. Nothing in net over swimming pool - probably too much water elsewhere.

Recoleta, Encarnación, Paraguay

16 Nov Stiffdericus, W. rain showers. 9PM - walked down to culvert in front of house which is open & full of running water. Several frogs around edge. These make a strange whining or mewing sound ~~as~~ to reminiscent of a cat crying. The sound is produced by blowing air from their inflated bellies into a throat pouch which ~~then~~ expands — rather than contracts — as the sound is produced. #D 563-564.

23 Nov nets. before storm. 1 net placed at top of 2 poles, top of net perhaps 15 ft up. 4 molassids caught at 7:45-8:15; 2 Eumops(?), 2 of the medium sized Molassids. temp 80°F, humid no wind

25 Nov clear, warm (80°F) but turning chilly (70°) after dark. heavy dew by 10. 2 Nets, at the top of single poles (~8 ft up). Caught one preg. ♀ Eumops at 2:45 AM in net along side of the elm tree in front of the house.

29 Nov 2 nets both 15 feet up, back by mango. Caught 5 molassids (1 Eumops & 4 molassus?) from 8-10 PM. temp 75°, overcast, occasional rain, medium breeze.

Myers
Plus
1972

Journal

Recoleta, Concepción, Paraguay

29 Nov Yet lots of bats active. The roost on the porch which had been producing 6-7 droppings a day, suddenly started producing 40-50 a day or two ago. & This evening several of the bats flying around the house looked like vespertilionids, rather than the more common, high & straight flying molossids. all bats tatooed & released.

30 Nov Río S Tobati Hwy rd., Dept. Cordillera, Paraguay
This time we're camped on the east side of the road (north last time) by a river (½-1 m deep, 4-5 m across & swift). Heavily grazed grassy field with an also grazed swamp & then @ jungly riparian vegetation. The soil in these places is ~~so~~ clay. There are some sandy areas, which support a low second growth (6 ft), very dense, mostly Prosopis. Looking around I see very little sign of mice & no obvious places to set nets. Weather is threatening - heavy clouds, thunder & lightning. Late afternoon temp with sun shining was 95°F. Windy. Even completely overcast, temp 75, breezy, with some rain. The main storm seems to have missed. Set out 30 snap traps (18 in swamp, 12 in sandy 2nd growth), & 19 Shermans (all in swamp) borrowed from Bernie. Set up 2 nets over grassy field & border. 8:30 - caught one goatsucker & 1 vampire.

Meyer
Phil
1972

Journal

Louis S. Tobati's land, Dept Cordillera, Paraguay

1 Dec. 5 traps - 1 Rattus from 2nd gravel, 1 wall, 1 at 1, Oryzomys (small) from swamp. All were caught with peanut butter + oats in snap traps, tho these were alternated w. banana-baited snap traps. overcast, windy, clear and very briefly. afternoon cloudy, warm, breezy. Crossed the river & walked E to rock bluffs. Dense jungle. Fairly tall trees, →100'; very wet, standing water, etc. found one tree, about 4" dbh, bark worn off ~~#~~ w numerous longitudinal scratches. No bark ~~eaten~~, many scratches up to 5-6 ft high. What does this? Numerous springs, holes in rock, etc. No caves seen. Set out the 30 snap traps, 1 Schuyler, 2 steel traps in jungle. Set out the 19 Sherman plus 2 large homemade live traps in rank, swampy veg. by camp, in the sort of place where I caught the Wolfs rat & Oryzomys last night. I bat net over a (sort of) likely looking place crossing the river. No bats by 8:30, when I pulled the net in (cows approaching). rain, overcast at night. Temp in 70s, sl. breeze.

2 Dec nothing in any traps. 100 or so of the traps in the forest had been sprung & robbed. One of the steel traps was sprung & dragged away for a small animal. Still overcast,

Myers
Phil
1972

Journal

1 mi S Itobaté hyrd, Dept. Cordillera, Paraguay
2 Dec temp about 80° F (9 AM).
5 km E Asunción, Dept Asunción, Paraguay
6 Dec 5 nets, 1 over swimming pool, 4 in neighboring woods.
7 of the small Molossops, 3 Eptesicus, + 1 small
Whitebellied Molossid (a Molossops also ?) Molossops
netted 7:30 - 9:00 first at 8:10, Eptesicus at 8:50 in light.
weather warm (80) cloudy. bats about same as last.
7 Dec a repeat, but fewer bats. 2 Molossops, 1 Eumops.
again 80°, cloudy 5 nets in woods.
230 km by rd NW Villa Hayes, Dept. Pte Hayes,
13 Dec Paraguay Dr. Weiler's ranch, Buen Amigo.
There has been much rain in the last 2
weeks. Over 90 mm fell here, including 35 mm
on Dec 5. Things in general look a little
greener, there is standing water in many places,
tho most of the fields are still dry. The
mosquitos & no-see-ums are thick, to be
counted in # per exposed in². There are
frogs in most of the ponds. Lots of anemi-like
lizards running around (same in Oct.)
& lots several fresh teyú guasú skins
hanging in the cowboy quarters. Nets
the west or the porch. Completely
enclosed the area with 4 nets. First
bats appeared late around 8:30. Initial
burst of activity, petered out in ½ hr or
so. During this time & until 9:30 we
were sitting near the nets. At 9:30

Myers, B Ted 1972

Journal

230 km by rd NW Villa Hayes, Dept Pte Hayes Paraguay

We came inside to start working as what we'd caught, & u/in 10 minutes another 15 bats flew into the net. They seem remarkably sensitive to our presence. We told we caught 32 bats. I kept 15, & marked the other. Among these released there were 4 recaptures from last time no more. 9:00 Air temp 23°C. slight breeze from south, few high clouds. beautiful night.

14 Dec. Of 229 bats, 8 only are males, & 5 of these I released. Not good. The young are full-sized but reproductive immatures. Most have adult pelage tho a few were grayer & more silvery (which I believe to be immature color). Pelages in general are slightly notched, which represents a nulliparous condition in this bat (according to nipple size & uterus size). No fetus in any of the bats. 1 ♀ gave birth in the bag. The young was dangling to the ♀, so I released them together. The young were also distinctive due to very rubbery bones. They were very numerous bruises before they broke when I skinned them. The bat bag warm, clear, & round. Decided to reset the perch rather than catch Noctilio same nets as before. Very few

Myers
Phil
1972

230 km hwy 9 N W Villa Hayes, Dept. Pte Hayes Paraguay

14 Dec bats. I could hear them under the roof, but as long as the net was up most preferred to remain in the roost. I kept 3 adult ♀'s & released a few immatures & ♂'s. The only recaps were two bats I tatooed & released in the late afternoon, a few hours before netting. 10 PM air temp 24.5° C. 140 feet of net.

Not much blooming this trip in the woods. Some cactus, also some ornamental shrubs (jasmine, etc) near the house. But we weren't able to spend much time wandering. Recoleta ½

31 Dec Recoleta, Asuncion, Paraguay

4 nets up, including one at the top of 2 pole set end to end (near the Eumops roost in the palm tree) & one over the swimming pool (which has now been full about 2 weeks). The other 2 were in the yard near & under mangos. I caught Eumops in the high net (2) & in the net over the pool 3 Eptesicus, 3 Molossus (3), 1 vampyrops, & 2 Tadarida brasiliensis. The latter seemed juvenile, with soft bones. One had a broken finger, so I put it up. Weather cloudy, w. lightening, &

Mufers
Phil
1972-3

Journal

Recoleta Asuncion Paraguay

31 Dec rain started around 10 (when I pulled the net in. Humid hot (85°F) as usually not but caught early & very few pupae late.

4 Jan 2 60ft nets over the swimming pool.
1 Jasion egg, 2 L. borealis $ 1 Eptesicus
the L. egg was an ancient, with large, hairless, cracked nipples & very worn teeth. Weather, hot (85°F) & humid no wind partly cloudy. Did not seem to be as many bat, flying around as there were on 31 Dec

5 Jan Mary walter brought me a legless lizard she caught in the maid room. She says she sees many on the surface of Pilar. I saw one in Asuncion myself but it was rotten & crushed, so I didn't take it. (Also EA picked up a mammifer on a different sp. in the chaco). It has not rained for 2 days, don't know why it's on surface. PM- Prof the workman killed another legless lizard - similar to the mammifers we - on surface, in heavy grass. Unfortunately he assumed it was a snake & chopped it's head off.
1 mi S Tobati Lupeh, Dept. Cordillera, Paraguay Day trip to the campsites here. Hot (95 at 10 & 11) humid, partly cloudy - mostly cloudy. Many vampires as before, the this time they were skittish.

5 Jan — I mi S Tobati by rd. Dept. Cordillera, Paraguay
All that I caught were juvenils, & I saw the
& fly off with a 3/4 sized young clinging to it.
Olive seen are particularly large (not
which I scared from it) perch several
times but each time it returned to
same place. I shot a pair of Caolica
which were clinging together, near the
cave entrance (20 feet in),

Pedro Juan, Caballero, Paraguay

16 Jan — Handcaptured ant Ptesicus roosting in
a shallow crack in adobe about 18" off of the ground.
Wing appeared injured by tatooing (#130),
it could fly only very weakly.

10 Jan — Nets up at roost in pond. Clear, warm,
humid, no wind. At least a small young
were left in the roost. I caught a couple
of them — 1½" long (±), barely furred.

11 Jan — Nets up over pool. night warm (80°),
humid, slight wind, clear. Weather
forecast says change manana. By 12:30
I had 10 bats. left nets up. at 6:30 there were 8
more. 1 is a molossid I don't recognize, so I kept it.
2 of the molossus sp. had broken wings, so I kept them

12 Jan — no nets set, but the net from last night
were left & flying across the pool collapsed.
(1 evening a molossid managed to fly
into one. Hot (92) humid, windless & clear.

Myers plus 1973

Journal

Recoleta, Asuncion, Paraguay

13 Jan warm (90° F), partly cloudy, sl wind. humid. 4 bats only. (1 net over pool)

15 Jan net over pool. weather has changed to positively chilly. 77° F at 10 PM. Mostly cloudy, mod. wind. Not much activity seen or heard. New hatch of Bufo marinus — a rather metamorphosis. Lots of little toad. the workmen brought me a partially beheaded snake from the heavy grass near the swimming pool. mangled, but I pickled it.

23 Jan vetted porch. warm, cloudy. 1 bat died, put up. Bus 230 km NW Villa Hayes Hyrd. Dept. Pte Hayes, Paraguay

27 Jan Drove out in our car! Started yesterday, but generator burned & we returned after only 30 km. Today a shock absaber broke, but we went on anyway. Hot (35°), dry, extremely dusty. variable wind, partly cloudy. How I ranged for about 10 days here. Not much standing water. few mosquitos. Lots in bloom including the quebrachos & much small stuff. Nets upon porch. caught only 3 M yotis even tho I left them up all night. also one lasiurus ega which tried to crawl the porch (from the outside) 11 PM temp 30° (C).

Meyer
Phil
1973

Journal

230 km NW Villa Hayes Dept. Pte. Hayes Paraguay

28 Jan Clear & hot & windy. max temp ~ 40°C. caught me Myotis in bedroom behind a picture frame. Started flying in mid afternoon which drew our attention to him. Also saw another which we couldn't get. Looks like they may be roosting solitarily or in small groups around the buildings. Shot one of the amerivs - like lizards. Bright blue & yellow on the belly bright green on the back. These are very common both in the moist & in the dry areas.
The capitas showed us a tree samuju (?) (Palo borracho) with a completely hollowed base. Droppings 6" deep at base. This is one roost where they used to burn out the bats. Mbopi pyta - probably Noctilio labialis
The first time they burned it they got 324 bats, he said. Last time burned was ~ 6 months ago. Smells like N. labialis but I couldn't see anything. 2 nets up by the Noctilio roost I netted in October. The caves on which Dr. Wenzel worked, Noctilio & a reddish Myotis yielded only 2 N. labialis & 1 N. leporinus. The second roost which also produced many N. labialis in October this time produced only ~~4 bats~~ molassids - about 10.

Mexpy
Phil
1973

Journal

230 km NW Villa Hayes by rd., Dept. Pte Hayes, Paraguay

28 Jan saw 2 gusars crossing rdroad near the nets. caught a strange, bright ~~toad (?)~~ in the bathroom. It was mixed in with several Bufo marinus. These are said to have a poisonous bite.

29 Jan hot & still. rained in afternoon, about 5 mm. There were puddles for a few hours but most then dried up. In one I caught some sort of frog, reminiscent of a horned lizard. Put net over 2 ponds near the house, but not in a few hundred meters of the woods. Both were moderately productive. Unfortunately the wind came up about 9 (shortly after dark), & we stopped catching bats. It looked like the sky might clear & the wind stop, so I left the net up all night (we quit at 10.) In the morning, besides a few tramp sandpipers, a kiskadee, & a parauque-like thing, I caught 2 Tadarida, a Molossops, a Myotis, & 2 vampires - the first from the Chaco. One had a swollen stomach. I shed again if the horses or cattle had been bothered, but "el mayor" assists that they haven't. The chickens, however, are occasionally bitten. Forgot to mention that day before yesterday I caught a mouse under the bark of a still upright tree. About 1 m off the ground. We decided

Mgrs
Phil
1973

Journal

230 km NW Villa Hayes by rd, Dept Pte. Hayes, Paraguay

29 Jan to try to keep it alive for karyotyping.

295 km NW Villa Hayes by rd, Dept Pte. Hayes, Paraguay

30 Jan Left Buen Amigo around 1 - broken brakes. arrived chaco experimental station about 5:30 PM hot, partly cloudy. we passed thru a brief storm en route, but no rain has fallen here for ~~some~~ ~~time~~ x, about a week. Fairly dry - the water level in the lake is still down a couple feet from where it was last June. The station prospers. Many hectares now planted. Light at night! Macchi not here. Put traps in brush piles (around fallen trees) at the edge of fields to the S. 19 Shermans, also 1 bat net. In the net I caught 2 Molossops (released) & 2 glycatches. Shot one of a pair of Felis geoffroyi (?), which were hunting in the grassy cleared field (but only 10-15 m from the forest edge). 10 PM temp at least 90 but w. a moderate breeze.

31 Jan 3 pbl/bats & 1 Akodon all alive & healthy. The Felis had a full belly - 1 lizard 1 guinea pig, & 1 Akodon? contents hot & partly - mostly cleared. preserved 2 snakes which were caught around construction near the house. Both appear to be same kind - dark back, yellow belly,

Mary Phil 1973

295 km NW Villa Hayes by rd, Dept P & Hayes, Paraguay

31 Jan Colubrid. also saw a small/sl Tamandua also in the grassy field, about 6:30 AM. It allowed us to walk right up close, then sat back on its hind legs & took a good smell at us almost blind. We played around with it (cautiously) but it never moved faster than a slow walk.

275 km NW Villa Hayes by rd, Dept P & Hayes, Paraguay ranch belongs to Oscar Nelle. "Rincón Chaveo". Asunción manager is Robert Carisimo. a mere 42,000 ha. Very old bldings, tile roofs. saw one Iguana hanging under roof. Found one Micoureus (collected ♀'s) one other suspect, & we spent very little time looking. "Mbopí casero" are very common. Here they have a caged female jaguar, 5 or 6 years old. She goes quite hoarse occasionally (don't know the interval), makes much noise, & apparently often attracts other jaguars to near the house. 15 days previously she had slaughtered a cow 500 m from the house. But these cat are supposedly "passing thru". Lots of mtn lions too. Also a few weeks ago one slaughtered 50 lambs in a pen, before it was killed. Seen frequently. "Tigrico" are common — this apparently what

Meyers
Phil
1973

275 km NW Villa Hayes Lynd, Dept. Pte. Hayes Paraguay.

31 Jan I've been getting at the experimental station rather than "gato monte". The latter are present but uncommon. apparently it's been a long time since anyone's seen an ocelot. Tapir are present but uncommon. capybara are common. They apparently have a very large lake (fresh H2O!) & lots of swamp. Foxes on the road. peg tracks. Nice place. lots of cebus & guayaba here, some mangos. soil clay, but a little less fine than at the experimental Station.

295 km NW Villa Hayes Lynd, Dept Pte. Hayes, Paraguay

1 Feb long walk in morning - east from bldings all the way to fences. neg tiba, then S to end of station, then to road and back. Mostly very nice, untouched forest - thick, heavy undergrowth of shrubs & bromeliads tall tree palo borracho etc. filled, Tatú pollú, 3 chanchos, & one deer. saw some ducks. & picked up a fox skull & a tatú bolita carcass & skull. The tatú pollú was in a more barren area - "viñalar" - cactus, viñal (a Prosopis) ochey thorny shrubs, but with a very open -

Myers
Phil
1973

295 km NW Villa Hayes by rd. Dept. Pte Hayes, Paraguay

1 Feb appearance - lots of (salies) sad showing. Back at station I got a water snake, also picked up near the excavation for cistern. Set up nets in PM (1-60ft, 1-30ft) near the barge, and near the water tank. Caught 2 M opossums (released), 1 F skink, egg. At neither the experimental station nor Bruen Ango have there been many insects. Few mosquitos, & all of them the lab-flying variety. But many of the polvarines (no-see-ums), flying at all times of day & night. Weather, continuing to be very hot & humid. 95 at 11 PM. Don't think temp has been below 90 since we crossed the river, except during the rain shower at Bruen 1 night. Partly cloudy, lots of isolated thunderstorms passing around us. Trip home - left 8 AM. Had set traps

2 Feb Pedro Juan (the 19 Shermans) the night before in patch of tree trunks in grassy field. Nothing - which was a surprise. I expected the akodonts. On road on trip home we saw 2 of the Teju (large iguanids) & 4 or 5 large colubrids (upto 6 feet). Many tracks of large snakes crossing road.

Myers
Phd
1972

Journal 91

295 km NW Villa Hayes Hyrd. Dept. Pt.
Hayes Paraguay

2 Feb probably 40 or 50 total. 2 dead Procyon this side of Rio Negro. arrived Villa Hayes 2:15 PM. Weather, more of same. at Rio Negro (where we ate lunch) I talked to the boss of a Pozo Azul ranch. He said they always had a few vampires, & had just had a bull sicken of what they thought to be rabies. They do not vaccinate for rabies except during epidemics such as occurred some years ago in this area. Horse bats common, they say.

3 Feb Recoleta Asuncion, Paraguay
karyotyped 20 A. Phyllotis. Fat mice. weather changed - cold front (comparatively speaking) came there some rain.

5 Feb karyotyped 2 more, a Phyllotis & an A. hosters. difficulties - took too long.

6 Feb warm, clear, windless. net overpool - stayed until 3 AM, then up at 6:30 AM & closed it. 16 bats, some tattooed, some banded. ~~Mixed~~ Mixed molossids, Eptesicus, & Lasiurus during first hour. Then slow - Lasiurus ega Cricket in. Picked up a little at 3 (3 bats). Between 3 AM & 6:30 AM another mixed bag, but good business - Lasiurus ega & borealis, Vampyrops, 2 sp. Molossids.

Myers
Phil
1973

Journal

Recoleta Asuncion Paraguay

7 Feb warm, clear, sl. breeze. 1 net over pool
bent moved somewhat from last night.
ran nets until 10 PM - slow. 2 L. eosini,
1 molossus. Left open, ran from 4 AM on. No
from 10 to 4 caught 1 L. egg. ~~Left~~ From 4-6 AM
caught 1 molossus & 1 L. borealis.

9 Feb day windy, partly cloudy, temp cool (~90). Wind
changing to S. evening windless. 1 net up over
pool, same as 7 Feb. caught 2 molossids. closed
net 10 PM, opened 4 AM. caught 1 Eptesicus, 2 L. egg,
2 large molossus. closed 6:15 AM. 5 AM temp 20°C.

10 Feb Karyotyped the Phyllostomus we caught at Buen
Amigo last trip. I originally injected him w/ colchicine
on 5 Feb, but things started going wrong & I didn't do him.
Reinjected & ran today.

15 Feb 3 km S Acaray dam hydr. Dept. Alto Parana, Paraguay
drove out to spend night & do some shopping in
Fz do Iguassu (Brazil). Rainforest, almost 50-60 ft
high, very dense, extremely dense even w/ in
the forest. Also very wet. We had ~~continuous~~ frequent
rain showers, cloudy, heat, & high humidity.
camped by the road near large (4-5 ha)
cleared but abandoned field. Partly
swampy. Several types bunchgrass, lots of
herbs & other grasses, reeds, etc near forest
border. No sign of cattle or human disturbance
tho there are at least 2 farms w/ in a km.

Vuyey
Pue
1972

Journal

3 km S Itacuay dam hyd. Dept. Ita Paraná.
15 Feb Paraguay. Looked like mouse trail, but saw no droppings, or pile of clippings.
Set 50 snaptraps & 19 Shermans.
16 Feb Saw 2 paquarundi crossing road. Caught 1 mouse, a strange rhodent with a long nose, long tail, big feet, & ranges fur. (caught alive). She later gave birth to 3 young & promptly ate one. Returned to Asunción via the Villarica — Paraguarí road. all farmed, but in parts not too densely. Road passes thru a large nice valley which looks like native grassland but has been grazed for centuries. Stopped one place near Tebicuary, saw & heard several guinea pigs, a small armadillo, saw perdiz. Good dusting along some forested mtns. looked rather dry.
Recoleta, Asunción, Paraguay. The rest of the pool has been left closed but neat. Just right lit. caught 4 Molossus & 1 Eptesicus. Eptesicus put up.
19 Feb 213 km NW Villa Hayes hyd. Dept PTE. Hayes, Paraguay. Roger & J. Stuck in mud at Santa Lucia. Troubles with oil pressure indicator, ending when the whole damned apparatus broke off & we plugged the hole with a nail & some glue. Due to this problem we spent the night

Mayer
Phil
1973

213 km NW Villa Hayes beyond, Dept. Pte. Hayes, Paraguay

19 Feb along the road at this locality. Ponds bulldozed along roadside for drainage - 3-4" of water here, the closer ones they are a couple of feet deep. Veg. nearby is dry but heavy "woods". This may could be the only standing water for some kilometers but it may not be, too. Camped in an old clearing near the road set traps mostly in brushpiles at border of grassy-shrubby area & the forest. Old rotten branches & tree in heaps. Armadillo digging & lots of runways (of small armadillos?) Caught 11 bats over the ponds (2 net, run in early evening & early morning). Chased a Procyon away from the nets several times. Ate a gray-necked wood rail ("gallineta") for dinner, delicious). Left about 8 AM. Drove

20 Feb to Buen Amigo to ask permission to go to Mandeyu. First it had rained 150 mms in Mandeyu less than a week ago, & road very muddy! At Buen Amigo they'd received only about 50 mm & things were quite dry. Went on to Pozo Colorado where a mechanic tried to minister to the car. 235 km NW Villa Hayes beyond Dept. Pte. Hayes, Paraguay. Pinedo Charrúa. Drove in about 4 hrs to get "gatis & ask questions. Gates easy - still in the room where

Meyer
Plud
1973

Journal

275 km (Villa Hayes Lgd., Dept. Pte. Hayes, Paraguay

20 Feb we got them last time & this time I had not. we got them flying by banging with long sticks. collected 19, & there were probably 3x that many. Due to oil pressure problems we needed to drive slowly, & since we had five animals we decided to return at night. Made entire trip to Villa Hayes at 30 km/hr, w. several stops. Saw 7 foxes, 1 large (30") Boa constrictor. caught & released a Tatú bolita. This trip was notable for the large #s of mosquitos, especially in the zone which I had gained knowledge a week earlier (around km 200). Temps were high - max around 40-41 mins in mid 30's. Partly cloudy - clear. slight breeze from N. Now if the no-see-ums that had bothered us at the beginning of the month. I am impressed by the erratic nature of insect abundance. After rain, there are mosquitos. But when it really heats up (usually a week or so after a front moves thru & rain comes) the mosquitos disappear & the midges come. But good rainfall completely unpredictable, & in this zone only seem to happen a couple times a year.

Mus. Nat. Plat. Lot 73

Mexican Consul for Asuncion, Paraguay. Actually about a block from the intersection. Have rented by David Smith. The have a small roof which is surrounded by walls but not roofed, out of which they have finished several small molasses forms. Found the roost - under tiles in the roof. Set one net at entrance one over pool. Caught all but a few of what came out of the roof - 2 types of Molossid, the large molossus & the small church rat. The church rats (2?) didn't come out until late - 9 or so, while the others went out before dark (8), while I was still setting up the net. Nothing over the pool. Hot, clear, calm.

26 Feb Vice Consul France for Argentina A. Naud - used to be Butlers. They have poisoned the Molossid roost in the roof but neglected to seal off the holes, for it looks as if the bats are returning. One net over the partially filled pool yielded nothing. Cool (80°) windy, cloudy - a front from the S had just gone thru.

28 Feb Recoleta, Asuncion, Paraguay. Not many mosquitos here. Hot, partly cloudy, slight S wind. Net up over pool. Closed 10 PM, caught 1 L. egga & 1 Molossus opened

1st March 4:30 PM, caught 1 Legg & 1 couple mice Molossus.

P. Myers
1973

Journal 97

Pecolela Asunción Paraguay

4 March Hard rain in late PM, cooled (turing off somewhat (from 95 to 90!). Lots of frogs calling after the rain stopped - especially those that sound like cats (~~unreadable~~ around the swimming pool) & a new noise, a staccato barking, rapidly repeated (~2-3/sec). This is made by a hylid. Caught 2 in trees & a third, somewhat different hylid also in the palms by the pool. The 2 barkers have a lot of yellow on side & legs.

11 ~~12~~ March 69 ~~km~~ NW Villa Hayes by rd. Dept. Pte. Hayes, Paraguay
2 roadside ponds ~~on the~~ near medium mante. & Medium - Many mosquitos & lots of tiny gnat-like things (didn't bite). Standing water ~~over~~ in cattle footprints in grass. Ponds too deep to net properly, so put up 1-18' & 1-30' net, one at edge of each pond. Caught & released 2 Noctilio labialis. One ~~adult~~ adult ♂ caught at 8:20 had an empty stomach. One adult ♂ caught at 9:15 had a full stomach. saw one fox. Weather clear & cold. temps down into mid 60's at night. 2 blankets! windless.

12 March 107 km NW Villa Hayes by rd. Dept. Pte Hayes, Paraguay
heavy mante. very dense. Trees up to 60-70 ft high. One unfamiliar, common legume with greenish bark seems invariably

Myers
Phil
1973

107 km NW Villa Hayes by rd., Dept. Pte. Hayes, Paraguay

12 March to be trollar. Saw holes (2 at least) stocked like the N. latitida roads at Buen Aigo. Numerous roadside pods along this 5 km stretch - probably 20 or 25, mostly only a few meters in dia. arrived 10 AM. Temp 84°F, partly cloudy, sl breeze from N. 3PM temp 35°C. Put up 9 nets, including 2 60' over the two large pond. Set out my 19 Sherman in heavy brush alongside a flooded field. Most of the traps are on dry ground underneath bushes. Shot a charata - very fat. caught only 4 L. equa, very disappointing. closed nets around 10:30 PM, air temp 21°C, clear, very sl. E wind. Mosquitos mod. bad. There is a lake, ~100m dia, in the front nearby, which may be drawing bats from the roadside pods. But there didn't seem to be nearly as many flying bugs as there were last night, & there weren't that many then.

13 March 7 PM air temp 18°C. working in traps. Saw a jaguarundi crossing road. returned

14 March Recoleta, Asunción, Paraguay

2 nets out over pool, until midnight. 9 Molossus, 1 Vampyrops (in part of net which extended under a mango (not fruiting)) & 1 Eptesicus. clear, calm, air temp 75°F.

Meyers
Phil
1973

Journal

Recoleta, Asuncion, Paraguay

15 March Same 2 nets as last night. caught 5 Molossus
1 Eptesicus in early evening. closed nets at 10 PM.

16 March opened nets at 4:30 AM. air temp 73°F, clear,
& breeze. nothing

17 March 2 nets as usual. ~~[illegible]~~ overcast. 10 PM temp 86°F.
2 molossids, 1 L. egen. no mosquitos.

4 km ESE Asuncion, Paraguay

21 March This is Quinta Rivola, Barrio Luis Alberto de Herrera,
now rented by John Williams of AID. 10 acres,
planted in mango, guayabas, avocado, ~~[illegible]~~ citrus,
other fruits, Eucalyptus, etc. Some Mandioca, &
some unkempt fields. Large old house. couple of
cows & chickens around. ~~no~~ Night overcast, sprinkle.
Temp in 80's. Set up 6 nets, mostly between
trees. One long lane lined by mangos very
promising. Small 1 caught 2 molossids (released)
1 L. borealis, 9 artibeus (1 escaped), 2 Sturnira,
& 1 Desmodus rotundus! first Asuncion
vampire. Most bats caught late - after nine PM.
also caught a large tree frog, in a trap.

12 km N. Tobati, by rd. Depto Cordillera Paraguay

23 March on 7 March caught a snake here - was
crawling along a fence wire. emerald green.
also saw several house rats. ranch belongs to
Sr. Brosio of Tobati. arriable. 50 ha, couple
of hundred cattle. a few sheep & pigs & fowl.
Setting is about 80% grassland with 20%
or so ~~[illegible]~~ slightly raised "islas" of forest.

Myers
Phil
1973

12 km N Iobaté Hyrd. Dept. Cordillera Paraguay

23 March Some of the forest is 50-60 ft tall. Lots of lianas, few epiphytes. Very diverse. ground cover dense in most places, especially with bromeliads but some areas have almost no ground cover due to cattle trampling. The cattle have made beautiful set of trails thru the woods as well. At present there are only a few wet spots in the grassland (except for several ha. of swamp. During the winter, according to Sr. Brasai almost all the grassland is inundated. The grassland is complex- many sp. of monocot & dicot. Bunchgrasses predominate. The cowboys burn frequently.

We camped in a rather extensive area - at least a couple of ha transected by a running stream. Weather is warm (evening temp in 80's, but down into upper 60's in early morning) still & clear. Set out 50 snap traps, all in woods. At 9 PM I ran them: the last caught water rat, next four from the stream. I put up net in a wide part of the stream (20'). I caught very little at first, but at about 8:30 I started catching Sturnira. ended up with 6 Sturnira (2 abd. ♂'s released), 1 Myotis, & 2 Glossophaga - the first this side of the Paraguay R.

While setting the snap traps I ran into

Meyers
Phil
1973

12 km N. Tobati Ligt, Dept. Cordillera, Paraguay

23 March a swarm of army ants. There were hundreds of thousands. These are small - most less than 3/8", but capable biters. It was a textbook experience. First I noticed several formicariid birds - especially great antshrike. Also what looked like a tinamid. Then came a horde of hopping, running insects. Immediately behind them were the ants. Leader to keep setting traps I crossed the swarm - rapidly - about 8 ft of ants. Unfortunately it was dusk - ⇒ PM - & I couldn't stop to watch them. When I checked the traps at 9 they were a couple of dozen feet further down the path.

24 March Nothing further in traps. 4am = troops of monkeys. The first were had reddish bodies, dark tails, & some sort of white & black facial pattern. Very shy. At least 5 in the troops, but could have been many more. Continually "barking" (snort) at each other. Later, same isla, I saw a troops of howler monkeys. Probably the same troops that we heard last night & this morning. At least 10. 2 color phases - ♂'s & ♀ different. Some a cream color, some dark. about 50-50, but I saw few monkeys. Their

Myers
Phil
1973

12 km N Tobaté Lygodium, Dept. Cordillera, Paraguay

24 March noises were distinct. more of a grunt which they did continuously while I was near. They also urinated & defecated, with distressing accuracy.

So far I've seen 1 big tree with fruit & a couple of palms dropping edible nuts. Lots of herbs & shrubs blooming. In town the lapacho is starting to bloom also.

Left the net up. caught a green-winged saltator & a masked yellowthroat. Seeing lots of the ameiva-like lizard. Set 2 more nets, back over a cattle path leading to the forest. Left the traps where they are, but set the 19 Sherman (also in forest). Capybara? tracks. Started catching bats earlier, about 8 PM. 1 Capaccinia, 1 L. ega, & 2 Artibeus, & 1 Tonatia (?) in the net over the stream. Many Sturnira. Caught many Sturnira & 2 Tonatia in the forest nets. 23 Sturnira in all. At about 9 I saw a 4 eyed possum in a very dense part of the woods & at about 10:30 I managed to shoot me nearly. Caught 1 little nightjar (Caprimulgus parvulus) & 1 Scisor-tailed nightjar in nets.

Down into the army ants again, this time well after dark. They attracted my attention (before they started biting my legs) due to the

Herp
Phil
1973

12 km N. Isbeli Leyra, Dept. Cordillera, Paraguay

24 March — large # of insects dropping out of tree, into the swarm below. The trees, of course, were loaded with ants - every twig & leaf had a few on it. Their bite is not particularly painful, at least not compared to a fire ant. Fortunately their poison is not so potent

Night was clear & calm 11 PM temp 73°F,

25 March — 6 AM temp 68°F. Nothing in trap. Looked around in grassland - no mouse sign. PM - large Tmeiva-like lizard in one of the post snap traps. Changed all traps - put the live traps in swamp (rushes & grasses), about ½ - the snap traps in swamp (border rushes & grasses with low, open grasses, water hyacinth, etc, water 6" deep), & about ½ in dry, sl. elevated grassland & brush. In the net 1 caught & released, 4 titibes (small & gray) & 12 Sturnira. Caught & kept 1 L. borealis, 1 Pygoderma, & 3 Tonatia. & all but 3 of the Sturnira & 1 of the T. maria were caught over waters. 11 PM temp 72°F. clear, windless.

26 March — one rat in a live trap. Nothing else. 6 AM temp 68°F. clear, windless, heavy dew. note - that 2 of the Tonatia have distinct pelage & immature repro. organs.

Pecoleta, Asuncion, Paraguay

noted droppings on the porch. set 2 net by roost. caught 2 molossops & 1 Eptesicus around 8 PM. clear, N wind, temp 27°C at 10 PM.

P. Myers
1973

Journal

69 km NW Villa Hayes by rd. Dept. Pte.
Hayes, Paraguay

30 March Ta Clamura - ~~Asso~~ we left under partly cloudy skies, temp in 80's, & N winds. got gradually darker to the North & by this pt. it was pouring. camped here Nite before. Set out 50 snap traps, 2 Sherman, 2 Sled traps (Victor) & 4 nets (2-60', 2-30'). 3 nets by ~~the~~ a dry creek bed, 1 by known roost in gallery by the road rain stopped in about 2 hours. ~~heavy~~ about 20-30 mm. road closed. Half the traps were set in lush, wet marsh. Severely cut over, no trees higher than 30', but very dense. Several paths 3-4" wide thru grass & marsh, ← → in which I set the sled traps & Sherman's. Other snap traps set in grassland particularly around slightly raised areas. No obvious sign of mice but it looks "mousy". Most ~~motas~~ but Leaving the ~~tree~~ missed the net. Eventually caught 6 large dark (smell mentos) molasses which I released the following day after noting necro condition. Also caught 2 Nectelio Gabrielis which I also released next day. Over the weeks I caught 5 N. Gabrielis. Checked the sled traps at 9:30 PM, sprung & dragged.

Myers
Phd
1973

Journal

Carbon Neville Hayes Lgd, Dept. Pte.
Hayes, Paraguay

30 March
31 March
Digest it (both): lots of mosquitos - about as bad as we've seen
clear, warm. night temp in 70's. not much wind.
4 rats in the traps, all in the marsh. They seem to
especially like the damp brushier weed places here,
though elsewhere this has proved to be a rather
sterile habitat. one new rat. one of the steel traps
was sprung again, but nothing remained. Need
larger traps. left about 1 PM. Food was open by mid
morning. all rats fat. when I released the bats
we noticed nothing dig. I placed them all, head
down, on a geckroach (where the molossids exit).
The molossids turned around so that they were head
up before climbing up. The Noctilios went up
feet first. also the molossids went into the loop
hole with no fuss. but when the Noctilio tried it
there was much squeaking. The Noctilio eventually
flew off, usually in ever-enlarging circular
pattern, seemed confused. The Molossus
seemed to know where they were - would hear one
that was already sniffing the tree.

Stopped at the Centro Apostolico (Km. 128) briefly
to deliver some stuff to Fatie, Shaw.

211 km Neville Hayes Lgd. Dept. Pte
Hayes, Paraguay Rope #1 Stopped here a
month or so ago. Set up 3 nets on roadside

Vegas
pied
1973

275 km NW Villa Hayes Dept. Pte.
Hayes Paraguay

1 April
~~2 March~~ week, if dont no rain, it will be dry all the way to the river. Net - caught only 3 Myotis in PM. Set up at 3:30 (now off daylight saving time) ie. not open sets at 6 & rise at 6)
2 April & by scrumped caught 10 more all the smaller, darker Myotis, & all but 2 are males. Went for a ride w. Alvarenga in a horsedrawn cart. There is an old road - the pre-Trans-Chaco trail over which cattle were driven to Villa Hayes - which transects the ranch. Many miles thru swamps & marsh. It was along this that we traveled, northward. Much very open marsh. Trees 20 ft or so, patches of bromeliad but often are can see for 2-300 ft thru the forest. Lots of track. Pig, deer, coon, armadillo, especially foxes, & fewer cats. Very dense mosquitos, but they are worst in shady places & not too bothersome in the sun. Saw one fox, which in retrospect seemed different - more red & yellow less gray, larger ears. I asked, & according to Alvarenga there are 2 kinds recognized & the names, translated mean red faced fox & common fox.

PM - looked around for best roost. One Noctilio roost (leg/mell) in a palo borracho along the

warm, partly cloudy, night temp in upper 70's - low 80's.

Myers
Phil
1973

Journal

211 km NW Villa Hayes by rd. Dept. Pte. Hayes, Paraguay

31 March

paved. By 10 I had caught only one L. ~~trodga~~, so
quit. Shot a Talé jhee in the ~~heavy~~ roadside brush. It did not rain here yesterday
the road is extremely dry, judging by the very
deepest. The water level in the pools is slightly
higher than before however, & the mosquitos &
1 April Polvarines are incredible. Left at 9AM the
next morning. Stopped for a few minutes at
Bren Arriyo. They had no rain the day before
last but had had 30mm the previous day.
275 km NW Villa Hayes by rd. Dept. Pte.
Hayes, Paraguay Rivera Chaireia. Comisarios
name is Alvarenga, the encargado is Bogarin, the
asuncion administrator is Carisimo. I had
obtained permission from the latter to stay a few days.
The first ~~this~~ night we put net up around the house &
kenny ~~roosh~~ suspended, except for the one evening I've
caught Myotis before. Just before dark
Alvarenga & I went on a walk around the house.
Mosquitos are unbelievably thick. The
"pasture" behind the house ~~has~~ has
vegetation that looks like an alevage - wet
swamp, rushes, floating water plants, etc.
about 1 or 2 or more ft of water. Lots of alligator
trails. Yet Alvarenga said that in another

Journal

275 km N via Villa Hayes hyd., Dept Pte.
Hayes, Paraguay

2 April road abse. Prel mostly this road goes thru low mesic & there are few trees big enough to have decent hollows. around the house, we found that the bats in the room where I'd collected previously had been smoked out a few days before. However, there were fresh droppings & bits of cut & scurrying from the roof, so I put 2 nets there. went over to the sheep corral, where there is a palm log roof. By lifting the logs & grabbing we caught several Myotis of both kinds (gray & brown), & a Tadarida. (This type roof is made of split slightly concave palm logs placed so that they overlap) etc.) Also ran the same nets as last night around the main bldg. These latter, caught only a small # of bats, but the first 2 caught about 50 Myotis, Mixed sp. I kept 10 9's & 50's of each of the 2 types & released the rest. (This work took until April 3. The weights (there last done, the higher fields) are appreciably lower) The Molossus & Tadarida were very active. warm, partly cloudy, night temp in upper 70's

3 April AM - went for a ride w. Alvarito, the farm worker on horseback. We went out the same road but much further to an abandoned retiro. It has lain idle for 7 or 8 years, at least. 15 km from here, 2½ hours to get there.

175 km NW Villa Hayes by rd., Dept. Pte. Hayes, Paraguay

3 April On the way back we saw several peccaries of the kind called "Taguá". ~~[illegible]~~ I shot one, which turned out to be a youngster. Delicious. There are 2 other kinds "curé'i" & "Tachy cãti". The curé'i is smaller, & once skinned can be distinguished from the Taguá by looking at the flesh side of the skin. The hair bases are obvious on a Taguá skin, & less so on a curé'i. The third kind, tachy cãti, is the only one with enlarged canines. Also shot 4 charata & saw many more. Saw 2 foxes, both of the common type & one tateí yaguá. No bats in the house either. It did have the palm log type of roof. I think the logs were probably too rotten. Did see a skink under one.

P/VI - set 4 nets over the pond along the entrance road. 3 were over pond ~~near~~ bordering on mouth, & 1 over a pond at the edge of palm savanna. The latter caught several L. egg, the former, L. egg, L. plaini, Noctilio leporinus, 1 Thyroptera, 1 Tadarida, & 1 Myotis. Saw only 1 fox. Got the car stuck in mud which prevented returning at 3:30 + ½ to recover nets.

The cowboys apparently believe that

N.B. - distinctions not reliable. curé'i is probably collared peccary, the other 2, white lipped Tayassu tachyaeus, both have large hair bases, but the latter much more so — Tolda a la entrada

Vuyo plid 1973

235 km NW Villa Hayes hyd. Dept. Pte. Hayes, Paraguay

3 April — If a low die of disease or any cause except snakebite, the skin rots along with the rest of the meat. But if [illegible] killed by a snake, the skin mummifies & does not rot. Right? The large # of mummified cows might account for the belief that snakes are more common than they apparently are.

4 April — weather warm, partly cloudy; night temp in 70's. skinned all day. PM - added 2 more net, both over ponds near palm swamp. Caught, most bats in these: total = Noctilio leporinus 4 L. ega 4 Eptesicus (one badly damaged by fish), & 1 small Molossus. Picked up a Procyon cancrivorus (?) skull near one of the ponds also. Saw several fox all of the common type, & caught & released a Tatéi bolita

5 April — warm, cloudy night temp in 70's. drive up to Experimental Station (km 295) in the afternoon. Macchi had caught a giant anteater (Myrmecophaga) the day before. Had it tied up nearby. What feet! He says it sleeps all the time.

6 April — 300 km NW Villa Hayes hyd. Dept. Pte. Hayes, Paraguay. Left Fincas Charrua at about 7 AM. km 300 is where Rio Verde runs the Trans Chaco. Saw lots of tracks - small cats, cow, mustelid, deer, fox, & a tapir had crossed the river several times. Very little water, all in

Wupey
Phil
1973

300 km NW Villa Hayes byrd, Dept Pte. Hayes, Paraguay

6 April isolated puddles ringed w. white salt crystals

470 km NW Villa Hayes byrd, Dept. Boqueron, Paraguay Tried to get into Dr. Maag's ranch La Estrella but the road has a gate across it with "Hier jagen verboten" written across it. Since the road crosses several other estancias before Maags we decided not to chance it & camped a few ~~feet~~ hundred meters further along (the road to Maags ranch is at 467, approx.) Arrived about 3PM. Hot temp in 90's, dusty, very dry. The land ~~is~~ dries gradually, but after passing Salazar there is notably less swamp & more thorn forest. There was a little standing water near the road to Filadelfia but beyond there hardly any thing. One puddle at 460. Vegetation is very diverse & all thorny. Quebracho, Palo santo, a few of Palo borracheros. several kinds of cactus. Many trees with holes. I looked at 5076, & one smelled batty & possibly had droppings, so we set a net near the entrance. Set out only 25 snaptraps & one steel trap. Very hard going thru the thorns. Saw lots of mouse sign - runways & droppings & urine stains. ~~Fast~~ The forest is nearly impenetrable for

Mayer
Phil
1973

~~470~~ 470
~~470~~ km NW Villa Hayes by rd. Dept. Boqueron, Paraguay

6 Apr 73 raining, report as much protection as an armadillo, yet there are numerous pile of deer droppings, & I saw what looked like small cat feces. night warm - low 80's, mostly clear, sl. wind from N. Caught 1 small black Myotis at 8 PM, which I released. very quiet - heard noises or possums unusual.

7 Apr 73 2 rats, 1 small possum in traps. all were in traps set around fallen or holed trees - one of the rats was in a trap set in a hole 10 ft. off of the ground. clouded up early.

460 km NW Villa Hayes by rd., Dept. Boqueron, Paraguay vegetation similar but w. a small pond by the road. lot of dead trees & old rotting brush piles by the road. Burned palo santo - oily residue which burns both long, remarkably nice odor. Me small grassy area (3-400 m²) laced with rat trail & droppings. The animals are diurnal but wary. Caught several glimpses. May be guinea pigs around now it clouded over w. low dark clouds some pds. of drizzle, but little precip. Temp down to 66 at 7 PM. Set out 40 snap traps, 1 Schuler, & 3 Steel traps - the latter 2 types in guinea pig runs. Shot 2 Thrals for dinner.

Wrgs
Phil
1973

Journal

4 Salem NW Villa Hayes Ly rd, Dept Boqueron Pte
Paraguay

6 April still overcast, cold, S wind. caught 1 Marmosa
one small unusual like yesterday's, & 3 of
the phyllotine wood rats. I was called by the
tail only, so will try to get him to Asunción
alive. Cleared partly in PM, warmer.
finally shot a baby guinea pig w. the pellet gun.
They are wary! Some are large - 8-10 long.
They leave droppings & white urine stains
all thru the brush, & even in the middle of the road.
Many lizards. Small Cnemidophorus like, very
quick. Also some Tropidurus type climbing lizards.
Hummingbirds are here. Near camp, there is a slight
rise with sandy (tan) soil. Here it looks like
gophers have been at work. Mounds (1 ft high &
18" dia), plugged holes vary in dia. from
1.5"-3", & droppings. Some fresh. Set 25 chuglers
& my last 5 snaptraps. I unplugged a couple of
holes, & 5 hours late, they had been plugged
again & one snaptrap set off. But no rodents.
Tuco-tucos? Didn't hear them. Left traps open
all day, caught one adult guinea pig & no
others.

all day (Sunday) people on motorcycles passed.
Usually 2 men, always w. a shotgun.
Around dusk 2 returned, one carrying a

Myers
Phil
1973

460km NW Villa Hayes Hyrd. Dept. Boqueron, Paraguay

8 April ~~pigs~~ peccary carcas, dy actor carrying a flour sack to some sort of carcas. We have been told that deer like to come out & eat themselves along the road after a rain. Pigs too?

What a pleasant campsite! No mosquitos or bothersome insects except an abundance of ants. Cool, pleasant.

1 PM - set out one net over the small roadside pond. all traps set - included, the 19 live traps. Caught 5 Noctilio, 1 Myotis, 2 Molossus, & one Desmodus in the net. Closed it at 11 PM. Rain[snap] traps at 10 PM, caught 4 wood rats. cold - temp 66° F at 10 PM. Cleared at about 9, med - sl south wind

9 April only one more woodrat in snap traps several traps sprung & dragged, one w. mouse guts spilled in it. Fox? 3 mice in live traps, 2 phyllotins & one akodont.

Lots of stuff blooming - guelracho, palo borracho, cactuses of several types, & others. Some guelracho w fruit, some cactus w prickly pears. The live traps were set along an unused dirt road leading thru beautiful forest. Some of the trees were 6-7 ft or more in dia. Must be uncut. Dense ground growth of spiny shrubs & bromeliads. Guelracho, palo

Mugs
plus
1973

Journal ~ 115

4/60 km NW Villa Hayes by rd., Dept. Boqueron, Paraguay

9 April barracks, etc. Tiger behind very bush. Left 1 PM, spent a couple of hours in Filadelfia, Rd recently opened, spent night around km 400 in very low scrub.

Recoleta Asuncion Paraguay

15 April first cold spell. rainy, NE wind, temp in 70's. 4 nets (30') over pool. caught 2 Molassus, 1 Tasiu. wind, thu warm & dry in early part of evening.

17 April first good winter rain. temp in 60's. Picked up a boa in back yard that's meant no. The hylids down by the pool are calling, Thu the other stuff is not.

19 April 1 net, 60', over pool. partly-mostly cloudy but clearing. sl. wind. 9 PM temp 18.5°C. caught 2 L. ega & 2 Molassus but one of each escaped when the bag came untied & left open all night

20 April rain not. clear, sl wind 8 PM air temp 21.5°C. caught 4 Molassus, 1 L. boreali, 3 L. ega. Net left open all night.

4 km ESE Asuncion, Paraguay

22 April Quinta Rivola (le Illams) warm, partly cloudy, still. 50 bats. 4 Desmodus (killed), 1 L. boreali, 1 Eptesicus, 2 Molossops, 1 large Molossus, 5 Vampyrops, 16 Artibeus, 10 Sturnira.

Meyer
phil
1973

4 km ESE Asunción, Paraguay

22 April net closed at 10 PM.

23 April Villa Morra, Asunción, Paraguay
Suburbs - Olsen's house. Warm, partly mostly cloudy. 1 Eptesicus, ~~2~~ 1 Artibeus, 1 Sturnira. Very fat bats.

24 April Clearer, still warm. 1 Eptesicus, 2 Artibeus, 1 Vampyrops.

Recoleta, Asunción, Paraguay

27 April very warm, humid, cloudy. 1 net over pool, 1 net over porch. 1 Eptesicus (#2, accidentally killed) collected by porch, 1 Vampyrops (!) also. 1 L. ega, 3 large dark Molossus, over pool.

20 km. NNE Asunción by rd. Dept. Itapúa, Paraguay

29 April Hard rain started yesterday. Mud looks like first of the big winter storms. Road to Pilar closed so we came here (Hotel "El Trivial", run by Reinharts). Rainforest, but low & much cut over. Permanent streams. Very rocky & hilly. Caught a frog in the basement & a Corallia in the bar. Owner says that they see many Corallia in houses. Looks like a nice place (but too wet to tell). Drive up to Jesuit ruins at Trinidad. Very large bat roost high up in one of buildings, can't tell what kind. Probably could be netted.

Meyer
Phil
1973

Journal

275 km NW Villa Hayes to Dept Pte Hayes, Paraguay

11 May left Asunción w. John Bayles at 8 AM. after 2 weeks of rain & cold. Road is a muddy mess. Weather today is cold, partly cloudy, strong S wind. clear towards evening. arrived Asunción at 5 PM. 2 Nets up over roost at house. few droppings but looks recently swept. But definitely not as much noise from the roost as usual. Bats started appearing at about 6 PM. Quite cold, temp in mid 40's. Min temp 40°. 38 total # bats.

12 May cold, clear, S wind. bats in bag torpid at daybreak - sluggish, all in a lump at bottom of bag. gradually came out of it as I disturbed them. not fat. couple of lactating ♀'s, but hair around nipples not much worn. very few insects, of any kind, day or night, visible. some mosquitoes PM. min temp 6.5°C. left

13 May ~~AM~~ around 9 AM - clear cold.

320 km NW Villa Hayes to Dpt. Boqueron, Paraguay Juan de Salazar, Cedars ranch. The "encargado" is Juan Faz, who is also part owner. Ranch started 1935 on a small plot gradually added land. Now 110,000 ha. cattle pop. low, growing. asked permission to stay on R. Verde. While we were at ranch I caught a torpid Molossus which apparently had fallen out of the roof of the generator building. First time I've ever seen bats in

Meyer
Phil
1973

320 km NW Villa Hayes by rd. Dept. Alto.
Hayes, Boqueron, Paraguay
13 May generator bldg. Burning a roost, lots of droppings. They said that the roofs usually are full of bats. Some roofs are tin, most are split palm logs. Left noon. still clear, cool. Max temp in 70's.
Rio Verde, 300 km NW Villa Hayes by rd. Dept. Boqueron, Paraguay beautiful Upper river forest. Palo borracho, large quebracho, other big trees. Palo borracho is blooming (Not much else is) dense, lots of bromeliads. Also nearly a savanna - which Baines says looks like African savanna - short grasses, some low trees. Swamps too. As many tracks as before - Tapir, pig, deer, agouti, crab eating coon, capybara (?), coati (?) small cat, tayra, grison, mtn lion, & a slew of smaller stuff. river nearly dry. Mostly unconnected pools. But the bed is 100-150 ft wide, sandy - muddy, often coated w. salt crystals. Ideal for tracks. A few mosquito, many tiny ticks. Saw a tayra & deer. - a capybara, grison, rivers, & coati, dark a herd of white lipped peccaries. 4 nets, all over ponds (saline) caught: Noctilio & Eptesicus early. Very little flying. Very cold - temp at 2.5 2.0 C in early morning.

Myers
Phil
1973

14 May Rio Verde 300 km NW Villa Hayes by 2d Lt Dept Boqueron Paraguay. Still cold & clear. Long walk N along river. Picked up a tapir skull 2 peccary skulls. Lots of pig sign, especially among forest bromeliads (roosting & tracks & feces). Shot a charata & a dove, saw a deer. Same net, caught 4 Noctilio leporinus early. Also saw many flying just before dark. One of the 4 had a nearly-chewed frog in the net. Cold, but only down to 7°C. Mostly clear - some high clouds. Moon is nearly full. Hunting at night has been very discouraging, despite the abundance of tracks. Repeated trips from 3 PM to midnight have revealed very little. Last night the peccaries, this even a night monkey on distant & inaccessible tree. Very quiet - seldom hear crashings. No owls or goatsuckers. Is activity depressed due to the cold or the moon? Daytime similar. See very little.

Set out about 30 snap traps & 2 of the large steel traps.

15 May Clear, cold. Out & hunting at 5:15 AM an hour & a half before dawn. No luck. Two hours walking & waiting. Nothing in steel traps. 6 mice in snap traps. One

Myers
Phil
1973

Rio Verde, 300 km NW Villa Hayes, rd. Dept. Boqueron, Paraguay

15 May Fairly dry scrub, one lt gray akodont, & most the brown akodonts in brushy grassland. One Groong & 2 of the brown akodont in woodland and piles of fallen vegetation. Left traps open. caught 2 more of the small lt akodont & 1 dark gray akodont. all in the grassland traps, all late afternoon. night warmer - 12°C. partly cloudy. 1 Tasin 2 small Molossus (released). & steel traps left set. saw armadillo, one fox. & walked the river bed until 1 AM, seeing only the fox. Heard little also. &

Set the 19 Sherman, all in the grassland, especially in the where there are burrows. Much mouse & some pig sign. The latter seem to prefer the drier edges of the hill where there is much dead brush for cover. mosquitos & polvorines are now medium common & annoying. Sat 1 bat seen flying at dusk particularly a group of N. leporinus leaving the woods well before dark.

16 May 6 animals in traps including one of the small possums (sing dampish part of the grass) one of the long-tailed Oryzomys, 2 light gray akodonts, 1 dark gray akodont, & 1 unknown but probably Oryzomys.

Wyss
Phil
1973

Journal

Río Verde 380 km NW Villa Hayes rd. Dept. Boqueron, Paraguay

16 May warm, partly cloudy - mostly cloudy light N wind. Decided it was time to take John to Filadelfia & run for Asuncion. Trip to Filadelfia uneventful. Left around 4PM. Caught 2 Tatú bolita (3 banded armadillo), at about km 420 & 380. They later escaped. Both were spotted running along the road. I braked & chased - as soon as I got w/in 3-4 ft. they curled into a tight ball & I grabbed them. One was a ♀ - the first I've seen (of 5 or 6 captured). Many guinea pigs crossing road about dusk. Many foxes - 15 or 20 total. 10 deer including one shot at 340 km NW Villa Hayes rd. Dept. Boqueron, Paraguay. Night lighted also near here I shot a Felis yagouaroundi. Both animals fat. Saw maned wolf in swamp - standing in water. Long legs! He & I stared at me as I stared at him, then bounded into forest. Herd of collared peccaries at about km 380. Wounded one but he escaped. Slept briefly (1 AM - 6 AM) at km 285.

17 May day dawned overcast, cool. Another maned wolf - dead & smashed on road - km 160 ±. Many many dead foxes - more than usual

Myers
Phil
1973

Recoleta, Concepción, Paraguay

19 May conversation w. Beerkelolder. He's got by now around 300 ha planted in colonial grass (Panicum?) also experimenting w. others. Says the World Bank currently is financing the conversion of 600,000 ha to colonial, of which 300,000 have already been completed. Beerkelolder tried to get info from them, & at his own (he spent a month looking around Brazil) on how long a field can be planted in colonial before it must be rotated or fertilized. No one knows - few fields older than 5 yrs, those older have been treated in various ways. No one seems to have good data on how long the fields are good for, & what happens as they are depleted (except the World Bank, which claims 15 yrs at least but produces no details). Beerkelolder has observed that the grass is extremely aggressive, outcompeting both the other foreign grasses & the native species, taking over fields very quickly. Some body should be keeping an eye on this, especially in regard to what happens if the stuff runs wild & is not controlled. Succession?

No Met over pool in PM. Has been cloudy, but cleared shortly after dark. Strong N. wind. Temp in 70s. 3 Vampyrops, 1 L. ega, no Nyctomys also picked up, 2 Myotis, 1 Toad (?), 1 Toad (?)

Myers
Phil
1973

Recoleta, Asuncion, Paraguay

19 May noheca loud braying noise. I've seen this only once before, yet ~~today~~ there were many calling & we saw 5 right around the pool this evening. The bylid was also on the edge of the pool NOT seen to be calling. As always, lots of immatures B. cliffi ~~marginis~~ in the sand under the mangos. We went into them often, when we dig into rubble piles. Sometimes a foot or more deep.

20 May cool, windy, cloudy. 1 1. egg over pool

21 May clear, cold. night temp over 60's. windy. no bats.

Salto de Piraretá, 10 km S Pirebebuy, Dept. Cordillera, Paraguay distance is approximate & intended to be airline not by road. To reach this place one take ~~the~~ rte 2 to Pirebebuy cutoff, ~~then~~ goes thru Pirebebuy & towards Paraguarí. Approximately 10 km from Pirebebuy is a dirt road lined by tall Eucalyptus, & a sign (" 1" Saltos de Piraretá ~~o los Saltos~~ (or whatever). The distance of the dirt road is 11 km. First there are many right angle turns. Amazingly well marked also an amazingly bad road for a fairly well publicized tourist attraction. The falls themselves are really cataracts, & the net drop is ~~drop~~ less than 30'. River is about 35-45 ft across, a couple of feet deep. Sand-rock bottom. Upstream from the

P. Myers
1973

Journal

Salto de Peraretá, 10 km S Pirebebuy, Dept. Cordillera, Paraguay

25 May falls are many long calm pools where I set 2 bat nets. Surroundings are heavily cut forest ~~xxxx~~ but low anyway (I think) due to the very shallow soil (over a rock cap, which comes there frequently). Looks wet ~~xxx~~ weather, cloudy, then clearing after dark. Temp in 70's. No wind. Caught 3 L. egas & 7 large Molossus. all bats very fat. Saw 2 water rat, both swimming along the edge of the river. When chased they ran along the slightly overhanging bank & disappeared. No hesitation about going under water either. Also saw a Chironectes several times, always swimming. Quickly disappeared under water every time I chased it. Lots of flying insects, but few mosquito. Left about 8:30 PM.

27 May return trip. ~~most~~ camped downstream from Oldevig. two nets above falls, 2 below clear, temp in 70's. caught 2 large Molossus, 1 Sturnira & 1 Desmodus. set 50 traps around rocks & brush. Half the traps were in the more or less open brush near rocky thorny, low bushes, sandy soil. Other half under slightly higher bushes & trees. Very

Myers, Phil 1973

Journal

Salto de Piraretá, 4km S Rubelbuy, Dept. Cordillera, Paraguay

27 May dense vegetation, very thorny. Many bromeliads. No sign anywhere. Caught nothing one trap sprung, & we heard the dog yelp & then he did it. Chased dom & caught a Chironectes in the stream, after slightly wounding it with pistol. I could run faster in shallow water than it could swim under the surface. Because of live animal
28 May & because it rained a little in the AM (& looked like more) we decided to leave.

Lots of stuff blooming. The Palo Borracho has giant bottle tapadera & many others are in flwr. Particularly bushes & herbs.

31 May Recoleta, Asuncion, Paraguay

Handcaught an Ephestian on the north floor.

5 June Weather has been wet, warm. N storms. Many mosquitos.

½ km ESE Asuncion, Paraguay Quinta Rivola. warm, partly cloudy, windless. But few bats. 4 Eptesicus & a Molossus caught right away. Later (6) caught 3 Sturnira, 2 Artibeus, 1 Molossops, 1 Vampyrops & 1 Molossus

6 June Recoleta, Asuncion, Paraguay. Fig tree fruiting by patio. Fruit small - largest are ½" dia., mostly seeds. But lots of bats

Myers
Phil
1973

Journal

Recoleta, Asuncion, Paraguay

6 June around tree. They come in in groups of at least 4 or 5, swirl around the tree, & leave. Sometimes they hang up for a second or so, but no more. Mostly they seem to grab the fruit on the wing. Put one net on the roof nearby, & one on the ground. caught: Eptesicus & Vampyrops, & Artibeus. As usually the Eptesicus was the first captured before it was completely dark. The others all came well after dark & kept coming until 9 or 10 pm when I shut the net. Warm (70°), partly cloudy, sl. N. wind. Lots of mosquitos. Has been very wet, w frequent small showers, overcast - partly cloudy skies, & winds from the N. Lots of bush & trees cleaning visible: the mango & bayas & ornamental stuff.

8 June cold front came thru. It long down into 60's, upper 50's. raining, overcast, S wind.

9 June left for Chaco. got as far as Concepcion. Despite what the radio & the Ministry of Defense say the road is closed. But weather is completely clear, the cold afternoon temp in 70's, SW wind.

I observed that with most bats, even when the testes are abdominal, by gently

May, plus 1973

Pecoleta, Encarnación, Paraguay

9 June manipulation I can usually work ~~the~~ tests into the system, when I can get an approximate measurement of it. All birds caught this month have been grossly fat.

10 June 275 km NW Villa Hayes, Dept. Pte. Hayes, Paraguay wet. all along the highway the water level is 2-3-4 ft higher than before. 110 mm at km 226. 150 at General Diaz. Road has been closed a week. In most of the roadside pools the water is clear first time we've ever seen it that way. Yet sometimes one pool will be clear & the adjacent one completely murky. Mosquitos are as dense as we've ever seen them. Walking anywhere is unpleasant. Temp still cool, night temps mid 60's

Pericos Charcos - much flooded grassland, & the water level has obviously receded considerably. Put up nets in the holding w. last roost, caught 35 last beg 6:30 PM. Most M. nigricans didn't get enough M. albescens &. Unusual I had the impression that they were leaving the roosts in groups segregated as to by both sex & species. Certainly in the bag itself the captured birds clumped into 2 groups, by sp. Also caught 2 light-colored M. pileata - don't know if they're M. nigricans or different.

Myers
Mid
1973

Journal

10 June

275 km NW Villa Hayes Dept. Pte. Hayes, Paraguay

Lots of blooming plants & trees. Also lots of grass where there wasn't any before - along the edge of the rd. on dirt pile, etc.
We walked out the length of the air strip at about mile P1X1, saw & heard nothing but millions of mosquitos.

A SENEPA man is here for a day or two. This is the gov't malaria control organization. Their modus operandi according to him, has been to treat sick rather than go after mosquitos, tho at first they did collect the mosq for identification & analysis. For the last few years they've been visiting each ranch & Indian village, checking on sick people. They try to visit each ranch every 2-3 months. They distribute medicine when needed, for free. The campaign has been successful in the Chaco (malaria was unknown here before the Chaco war when soldiers from the East probably introduced it). Paraguay is now regarded as 99% malaria free, (except the Alto Parana being the only region still infected

11 June

now) the last are fat. Looks like the 5th Mn. cell services are increasing condition while the 5th Mn. region aren't. Set out nets at

Wright Pub 1973

Journal

179

275 km NW Villa Hayes Grid. Dept. Pte. Hayes, Paraguay

11 June Damp roast today & fill in the gaps from yesterday. By 6 PM we had our boat & shut the net down. ~~5 to~~

Late, about 8:30, I waded out toward the river. Saw 2 ~~alts~~ caiman(?) back in shallow clear water where the river has still flooded. I grabbed one — he sank down ~~into~~ under water when I approached but did not try to swim away. Stepped on his head then grabbed him by the neck. No struggle except for a violent shake of his tail 2 ft. ± long. We'll try to take him to Asunción alive, photograph, & release in clear water next trip. Beautiful animal. Yellow brown, dark brown & black splotches. Banded tail. Large, yellowish eyes spotted w. black & a large, vertical slit of a pupil. As I was retreating to the house I saw a Felis geoffroyi & a small ~~boa~~ boa constrictor struck my boot (no penetration). Late that evening I saw a fox, nice half grown cub that let me approach to 20 ft or so. The "mascaleros" (peddlers) are now buying fox skins at $100 apiece & the men here say that foxes have become suddenly & miraculously scarce. ~~treated~~

Weather warmer, evening temp in 70's.

Myers
Phil
1973

Journal

275 km NW Villa Hayes, Dept. Pte. Hayes, Paraguay.

Lots of frogs out. No wind.

12 June Hot. Temp in 80's. Humidity 50% according to the Comisario. N wind, some clouds. Forgot to mention that last night there were literally dozens of caprimulgids, of at least 2 spp. — ~~the~~ a pair of the scissor tailed jobs (probably a ladder-tailed nightjar) & dozens of a bird that roosts in large nos. on fenceposts — we saw perhaps 30-40 yesterday afternoon, one per fencepost, stretched over a couple of hundred meters of swamp. Possibly the white-winged nightjars. P/M — N wind. Put up 6 bat nets over the ponds along entrance roads. But by 6 PM the weather was clearly changing. Overcast, strong S wind. At 8 we pulled the nets & headed for Asunción. Made it to km 224 (Pereyra), where we were told that it was raining in Asunción & the road had been closed to Tacuara. So we beat it back to Charrua. Killed a gray brocket along the entrance road. Lactating & skinny. Did not see deer. Mosquitos fierce.

13 June Overcast until ~~pd~~ until morning of 15th,

– 15 June when we left. Spent the time taking short walks (few hrs) & one long horseback

May
plus
1973

275 km NW Villa Hayes to Dept. Pte. Hayes, Paraguay

13-15 Tue ride. Lots of animal sign, particularly on other side of river — deer, pecs, & lizards in particular. But no animals. Weather too cold & bad melting. Ate last the deer skin & skull to a dog. At least it was good eating. Identified ringed teal, black necked stilts. Lots of the former.

I was amazed to find that the hillock on which the house & outbuildings are built is of rich black soil. Alvaienga says most anything will grow there. He said there are 2 others similar in area, he knows of, in the land. One is just across the river & was, until 7-8 years ago, used for growing mandioca & vegetables. The other is distant & wild. I walked over to see the ~~place~~ one. The track passes the place where bricks were made for the houses a number of years ago. Then crosses the dam ~~at~~ over the river, which runs behind the house. The dam must be at least 150 m long, & made of clay & soil mostly overgrown with brush & bushes. At least 10 years old, probably older, according to Alvaienga. Currently it is broken in two places.

Nyes
plus
1972

Journal

275 km NW Villa Hayes, Dpt. PT Hayes Paraguay
13-15 June about 3 meters of dirt were washed away.
1m deep water, rushes then the open
Thoroughfare, side the river is very wide
& has the overgrown appearance of a swamp
rather than a river. Said to be full of
big yacaré's (caimans)
Very little rain fell here, though it
drizzled for a day (June 13th). The water
level has dropped about 4" since we
arrived, though it is still a couple of feet above
where it was a month ago. Mosquitos
have gotten worse, if that is possible - than
they were on June 10 when we arrived.
June 15 Laundry except that the sun
broke thru briefly and by 10 it was totally
clear & cool. Made it to Villa Hayes in 5½ hrs.
27 km at about km 195.

16 June Pozoleta, Asunción, Paraguay
I met up, 60', about 10. the bottom fell
off of the ground, the top in the mangos. caught
the Vampyros, the stubes. We awoke,
changing - became dandy, 3 feet more
in. Became cool. temp in 60's.
The fig in the patio is still fruiting & there
are still lots of bats around it at night.

19-20 June 2 rattus caught in house kept for kangaroo mice.
One of Roger's friends brought a snake, caught in Asunción.

Misiones
Prov
1973

Journal

25 km S Puerto Iguazu by Rd, Dept. Misiones, ~~Paraguay~~ Argentina

30 July "Iguazu" may also be spelled "Iguaçu". This was strictly a tourist trip to see the falls. But picked up a road killed anteater, in the middle of one of the large Pinus & Araucaria ~~&~~ plantations that line the road. Rotten took only head & nothing to measure with. The forest where there is forest is tall, lush rainforest. Lots of lianas & bromeliads. Very wet, cool, & overcast. Temps in 60's, 40's at night. Fog.

20 km N Altos by rd., Dept. Cordillera, Paraguay

5 July. Estancia "La Susanna", belongs to Zavala, who lives in Asunción. Encargado is Julio. The ranch is in the rolling hill country, near Tobati. To reach it one goes San Bernardino & to Altos, then the cutoff to Aguai-y. at Loma Grande turn rt, & 8 kms late, the rd ends at La Susanna. Old estancia, once used for raising horses for the military. Between 1948-1965 not well cared for, & much gone back to brush. But in the last 2 years has been intensively worked. 1600 ha, 1000 hd of cattle which Zavala considers about maximum. Horses, sheep, goats, a few fowl. Sugar fruit & sugar cane plantation — bananas, pineapple, citrus, papaya, guava, etc. Mandioca. The forest is mostly broken into islands surrounded by grassland. Some marshy, most dry. Low rocky ridge, dry sandy rock.

Myers
phil
1973

Journal

20 km N Altos by rd. Dept. Cordillera Paraguay

5 July One small cave, perhaps 5m x 5m x 1m & a little bigger full of vampires. Saw no other bats in the cave.

Set up 3 nets, 1 over the bananas (1 more ripe), 1 among large trees but over clear ground & 1 over a pond-swimming pool. Also put about 30 snap traps & 20 Sherman, in forest & in brushy, second growth. A number of traps were placed near holes in sandy soil, especially in the brushy areas. Looks like the fossorial rodent we caught on the road to Caraguatay. Saw deer tracks, agouti (?) tracks & trails, armadillo diggings. But Tavala says not much game due to hunting pressure.

Weather during day hot, temp in 80's. ~~Hazy~~ Partly cloudy, windless, very humid. But around dusk a cool strong wind came up from the S & then clouded over. However we caught 17 bats, mostly molossids around the trees (found the roost in a large, hollow, dead branch). But caught 3 Lasiurus & 1 Eptesicus (plus a couple of molossids) over the pool. Nothing over the bananas. Nothing in traps at 8 PM. Saw 3 deer - a doe & 2 fawns, looked large. Probably thread fever & brocket. Also a rabbit.

6 July 2 rats in live traps. 1 a Rattus caught in toolshed,

Journal

20 km N Altos Hyrd., Dept. Cordillera, Paraguay

6 July One a cricetine caught near the burrow mentioned above. Weather cloudy, warm, humid. Last night's bats fruit, esp. the molossids.

Extended the line of traps to around 80 traps. Mostly thru hilly 2nd growth. Very dense ground cover. Also along the edge of sugar cane field. Op about 20 set along the edge of forest a short distance in. Very open, except where the bromeliads grow. Opened only the net over the pond. Using a mixture of waffles & papaya for bait since we forgot peanut butter & our oatmeal tasted foul.

Caught 4 bats, all but 1 Glossophaga, very molossids. Saw 4 rabbits, one in forest & 3 in sugar cane. Short one. Tracks of coati, deer, rabbit & fox (?) on sandy road thru the cane. Hand caught a cricetine on a palm. It & a variety are scrambling palm nuts, perched on falling fronds about 4 feet off the ground. Dazzled by the light. The one I caught looks very juvenile. The other was large, a light reddish brown color w. white belly. Same long, hairless tail. When I grabbed the one the other ran up the spine of the palm crumb. reset mast traps - put about 60 snap traps, all the Sherman, +3 sled traps +, 5 shrews, along a path leading first thru 2° growth (probably

Meyers
Phil
1973

Journal

20km N. Altos Lyrd, Dept. Cordillera, Paraguay

7 July about a year & a half (2 years since cleared), then then a short stretch of forest, then into a 1 ha plot of native grass surrounded by woods. In the grass there were lots of large animal trails, & I flushed 1 pair marsh mouse 5 times. Night warm, still. Remarks the net over the pond. Caught 2 Nyctibius leporinus 2 L. egg, 2 Caprimulgus, 1 L. borealis, & 8 molossid, 1 Eumops including 1 strange one with very fine fur & a light belly. In the traps I caught only 1 animal a Didelphis. As the previous night, 20-30 g. were sprung & dragged. The possum was in the 5 chamber, shot a Bothrops pitched it. Weather still fair, strong N. wind last. Left 10 PM

8 July 2 km S Tobati Lyrd, Dept. Cordillera, Paraguay

9 July This is the Oratorio on the Caacupé - Tobati rd. Stopped to look for Chrotopterus in the shallow cave nearby, found only a few vampires. As we were leaving heard bats cheeping up the cliff face. I found a crack, climbed up & found a narrow split in the rock full of Tadarida killed 4 with the pellet gun. Weather still warm, fair, strong N. wind

17 km E Luque Lyrd, Dept. Central, Paraguay

20 July cold, temp 10°C. intermittent drizzle, slight S wind. Pete & I stopped here looking for birds.

Myers
Phil
1973

17 km E Iguazu Land, Dept. Central, Paraguay

20 July We shot 3 birds - a Synallaxis spixi, Schoeniophylax phryganophila. I put up the first, Pete put up the others. Despite the weather & cold I got there (8:30 AM when we arrived) there was lots of activity. Saw white tailed white necked herons, common egret, rheas, black vultures, great black hawk, crested caracara, jacana, picui ground doves, g.d. anis, guira cuckoo, ringed kingfishers, ruffous horneros, olivaceous elaenia, chalk spinetail, great antshrike, white headed marsh-tyrant flycatcher, vermillion crowned flycatcher, vermillion flycatcher, grey monjita, chalk browed mockingbird, tropical gnatcatcher, masked gnatcatcher, bay winged cowbird, masked yellowthroat, vermilion red crested finch, red crested cardinal.

17 km S Eastern tobacco Dept Cordillera Paraguay

22 July weather cold. Temp at 10 AM 13°C. intermittent drizzle. overcast slight S wind. first went to vampire cave. very few bats, we saw 50-100 vampires about 4 roosting. air temp in cave where the bats roost is 21°C. Found a 2nd cave, small but deep, nearby. No bats, but a few insectivore & frugivore droppings. Air temp 20 feet in very high, probably at least 25 or 30°C. This cave has no back entrance, in contrast to

Rivers
Peck
1973

1 km S Tobatí by rd. Dept. Cordillera, Paraguay

22 July the other, so no brag goes there to lower temp. Shot 2 birds in the brush around the cave. One (Pete put it up) Troglodytes aedon, one (myself) & Myospiza humeralis. Also picked up a dark, large frog in the back of the worm cave.

17 km E Luque by rd. Dept. Central, Paraguay

23 July weather continues overcast, drizzling, cold. Temp in 50's. birds very active. Put up 2 nets, hunted w. dent. shot for a couple of hours. Saw lots, collected the chicli spine-tail & a seed eater, Oryzoborus angolensis. Pete collected a gnatcatcher (maybe) & a tyrrid both of which died up to PM.

275 km NW Villa Hayes by rd. Dept. Pte Hayes, Paraguay

25 July left Asuncion 6:30 PM. overcast, cool, drizzling again. almost turned back when rain started falling at km 35, decided to continue. Overcast & threatening all the way here (Charrua). By last PM it cleared. Temp cool. At 3:30 PM at temp 16°C, at 7:30 PM 12°C. strong S wind during afternoon decreasing in late afternoon but still strong enough to keep moth net at 6-7 PM. Days are lengthening - dark now at 6 PM. Rained little here. Puddles, and smell of wet like ago.

Bat roost very quiet. No noise in/out.

Negey
Phil
1973

275 km NW Villa Hayes by rd. Dept Pt Hayes, Paraguay

25 July Pre Torpid boat & Nigricans clinging to wall just outside entrance to roost at 3:30 PM (air temp 16°C). Pulled them in a sled, he felt a/ out flying. Movements were very slow & exaggerated. Body temp ~~about same~~ seemed about like a wing (to my hands) — normally they feel hot. But no way of accurately measuring temp. Put up the usual 4 nets, nearly completely enclosing the roost exit. By 8 PM we had caught one bat, a 3 Nigricans. Actively flying & chewing nets, & body felt normally hot. Heard a few others, especially around the 2 cow sheds (where there is fire!). But not many. Nets left up all night, caught nothing else.

Night thanks, loud activity. Lion killed a couple of sheep across the dam. A couple of men went after it (my .22 rifle!) but by the time they returned to the site of the kill, the lion had taken the carcasses & left. They did see a lot of collared peccaries, they said. (6 weeks ago I) found lion tracks in same area.

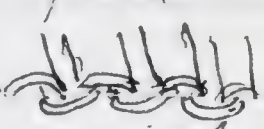
Lots of ducks. We saw 50 or more Muscovies, & a lot of teal. Alvaenga says there are fewer now than there were a few days ago. They come with the cold.

26 July Oscar Canisimo - "el Pedrozo-i" is here.

A couple of trees & shrubs blooming, clear, 6:30 AM temp 5°C, 6°C near bat roost.

Myers
Phil
1973

Journal

275 km NW Villa Hayes hyd., Dept. Pte Hayes,
20 July Paraguay 8:30AM - attached palm roofs. These
made of spelt, hollowed palm logs placed  .
We found bats here before, but when we raised
the logs they flew off. Decided that today they
might be torpid. ~~Some~~ Air temp, when we
started 16°C, rose to 18°C by 11:30. See chart for
results. Mostly Nyctinomops, a few Molossus
& a few Tadarida & Molossops (2 spp). All but the Tadarida
found in mixed grps. Seemed as if roof facing NE
produced more bats. All torpid. Counted
respirations on a recently disturbed Mo - about 120/min.
Felt cold to touch, very sluggish. Placed in the
sun most recovered but it took 15-20 Mo's minutes
clumped. Also saw several skinks under the logs,
plus ~~Bo~~ cockroaches, 2 hylid (collected) & various
beetles & bugs. bats preferred older, more rotten (D-T rpt too rotten) logs.

Clear ~~sky~~ sunset a few clouds no mosquitos,
very few flying insects ~~now~~ seen at night.

All bats internally seemed to be non-breeding,
except that ~~the~~ many ♀'s had open vaginas.
One ♂ Nl ~~low~~ scrotal, ~~Bo~~. Recorded repro info for
most individuals. Some, but not much fat. Wt
seemed a little low.

PM - some mosquitos appeared, not many.
opened some nets as last night. Tied a thermometer to
a stick, placed it in roost entrance. Temp at

Hayes
Phil
1973

275 km NW Villa Hayes Loma Dept. Pte. Hayes Paraguay

26 July 7:30 PM 14°C, 13°C outside. caught no bats. walked over to the sheep shed, where we had seen bats under a ~~roof~~ palm log (9 bats in all), & they had left. This morning we had carefully replaced the log, quietly & ~~w~~, as little disturbance as possible. But they flew this evening. Warmer temp tonight & do they normally leave regardless of temp? overcast came at about 8:00 P, wind picked up.

Phil & I went for a walk at 8:30–10:30 P, along nice bed. Saw one fox, near the Oldings. Not even a caiman. weather seemed to be clearing again (from S) when we returned.

Talked to Oscar for a while. Says that repeated artificial insemination (up to 4x) they get 92–94% pregnancies. Tell heat by placing cows, w/out bulls, in enclosure. If denied the bull, a cow in heat will attempt to mount other cows. Other signs too but not as reliable. But this is a slow process. Considers worm-ticks due to quality of semen, etc. He says Chaco has 30 leguas or 56,000 ha. (1 legua paraguaya = 5 kms less or $5^2 = 25$ km^2). Previously overgrazed. ~~Many~~ Years ago (?) ~~trees~~ (was much more open but overgrazing encouraged the Prosopis, which has now pretty much taken over. can only be cleared mechanically at estimated expense of $200/ha. They will plant Pangola grass starting in Oct-Nov, at additional

Vuyey
Phil
1973

Journal

275 km NW Villa Hayes Dept Pte Hayo, Paraguay

26 July expend of ¢300/ha, or ¢10,000 ha total. But considering the increase in range capacity & the price of beef they expect it to pay off.

27 July 6:15 AM temp 3.5°C. At roost enclave 5°C. 2 bats in net, 1 M. albescens ♂ & 1 M. nigricans ♀. (net left open all night). Day dawned clear, cold, & still. Heavily banked clouds to E, as all yesterday. Reported drizzling in Asuncion last night.

Talked to Oscar again. They bought Charolais in 1951. He thought that previously it had been well managed. But then they overgraged it, ~~causing the~~ resulting in an increase in Prosopis woods. Up to 18,000 head. In about 1968 they cut the # of cattle back to 7-8000 head where it has been maintained since. Now 50-60% of their land is woods, unsuitable for cattle. The rest is palm swamp — grassland capacity about 1 head / 3 ha. With Pangola they hope to get 3 head / ha.

Transportation of cattle almost entirely by foot. A "tropa" takes about 15 days to reach Villa Hayes from here & goes with 9 or 10 men who specialize in driving cattle (& are attached to no ranch but are for hire). No significant weight loss. If by truck pay 3,5 ¢ / head / km. Thus to transport 600 head 170 km to one of their ranches would cost 356,000 ¢, & with a 3-4% weight loss

Uruguay
Phil
1973

27 km NW Villa Hayes Dept. Pte Hayes, Paraguay

22 July assume weather remains good. By "tropero" (driving) costs ₲30,000. thus paying the lighting man help the cattlemen much economically. Oscar said that of course they regard it as a great convenience but little more. Transportation costs will not fall, in fact, they may rise.

Rode out to where the tractor is plowing ~~preliminary~~ to plant Pangola. Soil is so hard that the heavy disc harrow sinks in only 5 cm. Begins heavy plow to get to the necessary 20 cm.

Warmed up fast. Yesterday high in 70's Sound, clear. released ~~three of~~ two what bats we didn't kill. Of those caught in the palm roofs of the sheepherds cattle pen, 200 yards from the main bldg & bat roosts, ~~of barracudas~~ 24 bats in all all disappeared to various places. But those caught in the cookhouse roof, ~~3/4~~ ±100 yds from the main roof headed for the main roost. ~~They~~ Completely unexpected. Nets were half closed by no means block the entrance to the roost yet one recaptured 5 individuals of in 10 minutes after releasing them. Seem strange particularly since this time we've caught only 4 bats from main roost.

The bats from the cookhouse roost been dominant. Caught 55 in all, of which released about 30. M. nigricans M. albescens ± a few Eumops hodocsi all huddling together under the palm leaf. The

Myers
Phil
1973

27 km NW Villa Hayes by Dept. Pte Hayes, Paraguay

27 July Logs were partly rotten & some had a lot of water in each hollow spot. Notably also for the # of marked bats recaptured here - 13 in all! Molossids all very fat - indeed those caught over cattle pen. To dig bat w. some, not much, food.

PM. Found a few more palm roofs, only 10 a few more bats. Not many. Most of the roofs too old, leaf choked & rotten. Saw a green, ~~tree~~ very slender snake in one, over the chicken pen. Collected a series of M. albescens over a shed w. cooking - 50 yds from main roost. 5 PM, 18.5°C outside logs, 17.5°C under logs. all bats torpid. One recapture in the M. albescens sp. the last.

Definitely bats flying in every. a couple of Myotis flew into kitchen. D/Laura, the could be bats released earlier today. 8 PM temp 13-14°C. walked around at 8 PM-10 PM. Saw 2 Tamandua foraging (one went up a tree) & 3 foxes

26 July 6 PM temp 4.5°C. clear, still. Pete & I walked NE across dam, to old Chaco on other side of river. Lots of birds. 50-60 Muscovy ducks. Many waterfowl of many sp. Seem also to be many vermilion crowned flycatchers, even more than usual. They are everywhere. Several mixed feeding flocks, composed of insectivorous frugivorous seed eaters, etc. — whatever handy. Lots of game tracks as usual, including agouti again.

Meyers
Phil
1973

275 km NW Villa Hayes rd, Dept Pte. Hayes, Paraguay

28 July (See notes on last month's visit for a description of place & what there). Saw a large fox, 5 or 6 collit-lipped peccaries, & a red forest Mazama, w. horns. Returned 11 A.M. Water level is much lower than a month ago. The river is a swamp again, hardly any current where before there was a torrent. In the swamp behind the chaco I'd guess the water is 6'-1' lower than it was. Large areas which were under water are now exposed — hundreds of hectares. Because we could walk along this relatively clear land we saw more of the chaco area. Bordered by thick, tangled brush with tree spp we don't see elsewhere. Not much grand bromeliad. Looks dry, but not xeric like most of the month. Not so stony, either. Many vines. The peccaries were nearly lost in more open brushland - scattered bushes & cactus. Disappeared into the bromeliad & Prosopis forest. The brocket similar.

290 km NW Villa Hayes rd, Dept Pte Hayes, Paraguay This is the Loma Jhovy retiro of Rincon Charria. An old house w a tin roof, & several palm log roofed bldgs. Found only two bats - not tropical - under the palm roofs. But the tin roof was loaded. Must return tomorrow night. Squeaking loudly under tin roof. Temp in 70's.

Mary Phil 1973

Journal

275 km NW Villa Hayes Dept. Pte. Hayes, Paraguay

295 mly

Clear, still, 6:40 AM temp 3°C (just after sunset). Went right up to the cookhouse roof & started raising palm logs. The log under which I caught so many 2 days ago was empty. But I found a solitary H. allegeri ♂ (log back in sun, too cold to water) Grabbed it, immediately broke its neck, made an incision in belly, & stuck bulb of thermometer in. 1 1/2 in 3 minutes I had a temperature – 8.5°C. Left held w thermostat in shade, not touching my hot hands or in sun. Temp under the log from which it came was 4.5°C. Torpor! Left Charria shortly afterward. Stopped at Experimental Station for a while to look at grass plots. Panicum coloratum & Pangola are the most successful but a few others seem promising in special situations. Then stopped at Río Verde shortly. Very few animal tracks – a few deer, a few pig, & some old tapir prints. Not much.

see p 148

420 km NW Villa Hayes Dept, Dpto Boquerón, Paraguay

Arrived 4:30 PM, hurriedly put out 19 Sherman. This is similar to Filadelphia – very thorny low forest (thorn scrub), lots of cactus, & soil very fine, dusty. Camped near 2 temporary ponds, one on either side of the road. Put 3 30' nets up over one, a pond 150' by 40' approx. Numerous tapir tracks along the border. Caught 5 Noctilio & 3 small molossid

Mary Phil 1973

420 km NW Villa Hayes, Dept. Presidente Hayes, Paraguay

29 July like P.M.F. 1001 (from Chaco). The Nortilis must have recently molted all are a very bright orange in contrast to the dull yellow brown we usually see here. Caught similarly colored Nortilis a year ago, in the eastern region. On the smaller pond, rapidly drying up now only about 10-15 ft long & 6' wide, there were so many Nortilis that the face while right after dark, their feet made a continuous sploshing sound - they hit the water hard. In the late afternoon, but before dark, Pete & I shot several guinea pigs along the road & the edge of the water (coming to drink?). They are abundant. Piled brush, stony banks, etc - all underlain by trails. The white cerine stains & the droppings are everywhere. Seem to be diurnal, or at least we never see them at night. Weather clear, wind has switched to (from) N. Getting But calm in evening. Warm, too - min temp around 10°C. Also caught a Furnarius cristatus, Sauro

30 July caught 1 (dead) guinea pig, 3 akodonts, & 2 Phyllotis in traps. Lots of the F. cristatus around in flocks. Very terrestrial & also cardinals, a rat-like (?), & a # of Frenzillids.

474 km NW Villa Hayes, Dept. Presidente Hayes, Paraguay

Arrived around 1 after a trip into Filadelfia.

Wyss
Phil
1973

30 July 474 km NW Villa Hayes, rd, Dept Boqueron, Paraguay
This is like ~~prec~~ last night's site except there is no pond. Considerable dead wood very rotten, ~~bird the road right~~ parallelling the road 30 ft or 50 back into the right of way. Probably been there since the road was built. Into this went the 19 collapsible Shermans & my 15 homemade noncollapsible Shermans. Vegetation like before, but more cactus especially a kind which has splendid leaves & lies flat on the ground in mats. Vicious spines. Lots of armadillo holes, deer & pig tracks. Parrots, including a new, unidentified (to me) kind. Chorata. Looked hard for Cleome seeds, finally found a few old ones about 3 km further up the road too late to do anything about it. Drove up & down the road from 2:30 - 8:30 PM with Pete, caught 1 Tatu bolita & saw a fox. Not much moving, tho we were too tired to stick with it very long. Afterwards (4 PM) I went for a walk. In about a km I ~~saw~~ 3 Tatu bolita & caught 2. a ♂ & a ♀. Both reacted strongly to the light & I couldn't see what they were doing, except that one was surrounded by a lot of angry termites including a few clinging to its belly. I located all the ~~Tatu~~ Leg's and I believe I had several other insects that. Pay tape 32 or 50 overnight dead in evening.
390 km NW Villa Hayes rd. Dept Boqueron Paraguay
(29 July) Forgot to add ~~this~~ appropriate place that in mid morning

Wrigley
Phil
1973

Journal

390 km NW Villa Hayes, Dept Boqueron, Paraguay

(24 July) At camp small armadillo seen, adapoid race. I stepped it dived down a shallow hole, beat by grabbing its tail & working at it, I extracted it. Seems to be a fourth species. Very hairy, looks like a tatéi pollé, except has a long, skinny tail. Vegetation is Prosopis (viñal), very dry, & soil is very fine clay.

417 km NW Villa Hayes, Dept. Boqueron, Paraguay.

30 July (cont) Lots blooming, esp. shrubs. Left a coffee cup half full of water, & it was carhood in the afternoon. At spontaneously generated 11 water striders. Dry country. Some of the roadside ditches are a little damp at the bottom, but no standing water. Saw a # of bats, mostly looked like Molossops but these were vespertilionids.

No net up.

31 July very warm overcast. 3 Mice, all P hylloti, in the collapsible 3 hermans. Saw several deer in AM crossing the road. Left around 10 AM into Filadelfia until 2, then headed home. Stopped briefly at Charria. Sw wind overcast, some lightening. Very threatening. Left after an hour & so, 4 PM. Many fires along the driveway (~10), & 20 more at least before we reached Cerrito at 4 AM. Patches of drizzle, but road stayed open. Just beyond Cerrito it had rained heavily & road was a mire. Reached ferry at 4:30 AM just as it started to pour.

Journal

Recoleta, Asuncion, Paraguay

3 Aug "Wyss, collared sparrows are singing again! ~~Have~~ ~~been~~ Cris evidently ~~spent~~ has spent 2 entire days battling his reflection on a piece of polished metal.

16 Aug 230 km NW Villa Hayes 3rd ed. Dept. Pte. Hayes, Paraguay
Buen Amigo again. Stopped off for a few minutes to see if the Myatis ever returned. It looks like a few are there, but not many. The old comisario left in April & the new man has let the place go to pieces. Plants dead, everything dirty, etc. Which means that the bats have not been disturbed & the few droppings may have been there for months. Looks like we did 'em in.

They had only a few mm of rain, which in Asuncion we had nearly 100 4-5 days ago. But up to Rio Negro (km 145) or so it had rained considerably. Road still damp (today was the first day in a week it has been open), roadside pools full to overflowing.

270 km NW Villa Hayes 3rd ed. Dept. Pte. Hayes, Paraguay
From about Toro Colorado (km 250) on the vegetation looks dried out. The roadside pools are low, although most still have water. Car miles having. Still lots of snail kites by the road, the FAT many of the storks.

Arrived Chorrera 3 PM. Be Many, many

Meyers
Phil
1973

Journal

270 km NW Villa Hayes rd. Dept P Co. Hayes Paraguay
Pato brasado (muscovy ducks) ~~some~~ wild animal
is killing chickens & the lion got another sheep.
weather clear, warm (~~scattered~~ but 6 PM temp 20°C)
el N wind. ~~sat by road~~ at 5:45-6:30 PM. a few
(perhaps 5 or 6, but ~~nearly~~ impossible to tell) bats
came out. There do seem to be a fair # of ~~Vespertilionid~~
Molossid flying, although ~~#~~ ~~less~~ in past
there have been many X more. almost no insects
flying. Very few mosquitos.
2 Brief walk with Alvaro out by the river
after dark. Many caymans - in one sweep of
the lantern I saw 9, ~~7~~ including one that must
be at least 4-5 ft long, judging by the space between
its eyes. Nothing else.

17th up ~~at~~ out at 5:30 AM, 45 minutes before light. walked
over the dam to the old chacra on the other side of
the river. Saw 2 deer, lots of ducks. Many
ducky birds. Tracks. warm, 5:30 temp 12°C, wind N.
wind.

8:30 AM - started in lifting logs to palm roots. first
bat low sheepshed caught 5 bats. All too torpid to
fly. Temperature = 26° under log, 25° but after 5 minutes or less in the sun they
took off. saw faced roof all (there are now only 5-6 logs
on the NE face). then went to high sheepshed
which had produced roosting last time. 3 ~~bats~~
noticed, all on N side. These hardly torpid at all

Nigeria Phil 1973

Journal

17 Aug

270 km NW Villa Hayes by rd. Dept. Pte. Hayes, Paraguay

last one escaped. Then went to the high shed over the cattle chute. Did about 20 logs (half of the N face), caught 5 bats. But by now they are active & fly off as soon as disturbed. Last 2 nearly lost after I quit. Air temp 29°C, under log 28.5°C, 10:15 AM. Ht. topic at 25, active at 28.5°C

Note that we checked for bats under the low sheep shed at 7:30 PM last night & there were none. Today there were 5. So they were definitely active last night.

Some legumes blooming, but not as much as last time. Polo borracho in fruit (like kapok).

Walked out by the river. The water level is way down. The last water's edge has retreated at least 70 meters from maximum, perhaps more. Water birds are all concentrated. So is the floating vegetation - many ponds are solid mats of green. Waded in by some rushes to retrieve a giant wood rail I'd shot - it was waist deep & probably 5 ft deep. Not likely to dry out completely. Didn't see much wild animal sign, but this is hardly surprising as the sheep & cattle have badly beaten the vegetation down & tracked up the mud. Many ducks (some of the teal most an intermediate) & a wood duck which whistles when

Myers
Phil
1973

Journal

27 km NW Villa Hayes rd. Dept. Pte. Hayes, Paraguay

17 Aug it flies). A number of Louisiana herons (8-10, more than I'd seen before at one time) several kinkins & the usual large stuff (screamers, storks, ibises etc ~~heron~~ herons & egrets).

At 4PM we drove out the driveway to set nets over the ponds along the driveway. Saw one of the giant anteaters (Myrmecophaga) ambling into the viral (Prosopis) less than a km from the house. Tried to photograph it, but by the time I had the camera ready it had disappeared. Put up 6 nets over 5 ponds, over about 2 kms linear distance. 1 pond is at the forest edge, the others are bordered by viral which goes into palm savanna. Optimism due to the drying up of other ponds, & the weather, which was mild (temp at 4 PM 34°C, at 10 PM 22°C, clear, wind moderate & from N in afternoon, & slight to non existent after dark). Nets up at about 9:30 PM.

Fantastic night! Lots of flying insects, but few mosquitos. Bats everywhere. In 1st half hour caught 15 L. egg. Then other stuff started appearing, w/ a few more L. egg. Even the smaller ponds right by the road were batty. One of our conceptions about the Chaco fauna was destroyed when I caught 3 Artibeus, inc.

Vargas Plat 1973

270 km NW Villa Hayes Dept. Pte. Hayes Paraguay

17 Aug both the large & small types. Also caught a vampire, the first from Chaco. 2 Noctilio leporinus, & saw several flying. 24 < ~~eggs~~ Eptesicus & 16 molossids, including 9 Tadarida & 2 of a type new to me, perhaps a Eumops (large & big eared). ~~39~~ 40 in total. Molossids fat & later moderated 50.

Also saw 5 or 6 opos, a crab eating raccoon (briefly, as it disappeared into the brush), & a Tamandua. Wind picked up a little around 7.

18 Aug Hot, partly cloudy. Max temp ~~36~~ 36°C. Spent the day skinning, left for Loma around 4 P.M. 290 km NW Villa Hayes, Dept. Pte. Hayes, Paraguay Loma Thorp, described previously. & Put up net surrounding the tin roof & at an exit along the central beam. Flocks of Tadarida. By 8:30 P.M. had caught 10 or 12 Tadarida & other Molossids, only 1 Myotis nigricans. Weather warm, 22°, breeze from N. at 3-4 A.M. south wind came up & sky clouded over. Temp ↓ somewhat.

19 Aug Temp 20°C at 7:30 A.M. overcast, light wind from S. 5 started in on the palm roofs. Bats not torpid 30 at least ⅔ are escaping. Still caught many. One large group of 10-20 M. nigricans (all ♀) & mostly ♀) one large group M. albescens ♂. Not certain if the groups were strictly pure as to species, but almost. Green politen ♂ M. nigricans & 2 small groups of M. nigricans ♀. This almost

Vegas Phil 1973

290 km NW Villa Hayes by rd. Dept Pte. Hayes, Paraguay

19 Aug interesting, considering how/when they were when we visited this roof a month ago. At that time it was warm but not hot (temp in 70's). This time the temp had been very high (36°C) the preceding day. Perhaps it gets too hot under the tin roof & the bats head for the palm trees. At least there was no squeaking under the roof this time, & they certainly were last.

The M. negricans — M. albescens separation was a novelty too. Before we've seen mixed grps. & the 4 M. albescens? We did hear squeaks in the cathedral roof where we couldn't get at the bats. Perhaps they've formed a nursery colony.

Looks like this might be a good walking place if it dries out a little more.

Bats w. slight lat. Many bugs - especially polvorines. Few mosquitos.

Temperatures drapping, drizzle increasing. Left about 9:30 & 1 VI. we started for Pto Verde to see wetzels but drizzle too much & we returned to Chaco

275 km NW Villa Hayes by rd. Dept. Pte. Hayes, Paraguay

6 PM - went for a walk w. Jan. Saw a group of at least 4-5 peccaries by the river. Hundreds of ducks. Drizzle, rain, wind strong. Left, dark rain many VI yotés flying. Temp about 20°C. Despite the wind & drizzle this weather.

Vuyes
Phil
1973

Journal

19 Aug

275 km NW Villa Hayes, Dept. Pte Hayes, Paraguay
8:30 PM went for a walk w. alvarenga. Saw 6-8 Myo. Shot 2 of the little grayones. also saw, & finally collected, a Procyon cancrivorus. Most of the stuff was near water. The Woods is scarce enough now that wildlife is congregating near the ponds & rivers. Chased one pair of eyes that I believe was a lion - it moved right, size was right, & the tail was right. But never got a really good look. While chasing it we got totally disoriented & lost. took 45 minutes & a compass to get straightened out. Very confusing. All the same despite wind & drizzle & dropping temp.

20 Aug

still overcast, but drizzle stopped. 8:30 AM temp 13°C, same at 9:30 A. Worked on palm roof for a while, see list under Work tattoo #1. Caught many M. nigrican all very torpid. 1 group of 3 ♀'s we recaptured - had labelled the same 3 bats under approximately the same log 3 days ago. Also caught 4 solitary ♂'s similarly - under logs close to where originally captured. Many bats, mostly pregnant. Skinned the Procyon. In belly were remains of a snake, a frog, weeds, & lots of unidentifiable goop - they masticate well. Other had some large seeds & insects.

After lunch it was clear that we would not be able

Meyers
Phil
1973

2.75 km NW Villa Hayes Rd, Dept. Pte. Hayes, Paraguay

20 Aug To leave, so we marked & released 14 M. yoli albescens ♂'s, & 4 M. nigricans ♂ & 8 M. nigricans ♀, all from Loma Jhovy (km 290). Let them go near the main Charrua roost, but they ~~sleeve~~ flew off in all directions. Most ♀'s pregnant.

At 3:35 PM we started in to finish the palm roofs. all under bat tattoo chart. Notable was the recapture of 6 of the M. albescens ♂'s we had just released (from Loma Jhovy) all under the calf's shed N of the main roost. This is where we found a # of M albescens 3 weeks ago. However, it also happens to be the palm roof closest to the main roost where we released the bats (there is one other roof - the cookhouse roof - only a few meters further, but N of the main roost. We did catch one unmarked ♂ M. albescens under calf shed roof.

3:30 PM temp 16°C, same at 6 PM. Overcast, calm.

All bats all day were a bit torpid, but not so (as we had thought) they couldn't fly after 5-10 minutes. Same in PM tho these M. albescens recaptures were ~~not~~ even less torpid (~~the~~ most ~~were~~ unable to fly, even tho they had been released only 3-4 hours earlier).

One of the ♀'s labelled on the N side of the roof in the morning moved to the S side when we recaptured 8 of its ♀ bat, marked on the N side & no other - at about the same level of the

Wiggy
Phil
1973

Journal

275 km NW Villa Hayes Head, Dept. Pte. Hayes, Paraguay

20 Aug 1973 roof so they may have simply crawled up the palm log to the crest of the roof, & down the corresponding log on the opposite side.

There was also a noticeable tendency for a pair of M. nigricans to be associated w. a single ♂ M. nigricans.

After dark I saw a few Nyctibius griseus this I didn't see as many as last night. Also watched 3-4 Nyctibius leparius [illegible] over the pond in back of the houses. Afterwards I walked out along the river to the opposite bank 8 - 10:30 PM. Started drizzle. Saw the usual 6-8 species, Alvarenga insisted on shooting some. Nothing else. Shot a "pato brigado" muscovy duck - along the river at about dusk. monstrous also saw 30-40 sandpipers, mostly in flocks. Yesterday there were more, not to day, before I & spent a couple of hours in a place where if they had been here I should have seen them.

21 Aug Dawned raining. 8 AM temp 12.5°C. afternoon overcast. I went downstream from the dam nearest the house to the next dam. Alvarenga says there are a whole series. Area is very nice. Water, both days, lots animal sign not too many cattle. Saw many muscovies. River is narrower here. Didn't go out in evening. Looked for sandpipers along river bed

Mayer
Phil
1973

275 km NW Villa Hayes, Dept. Boqueron, Paraguay

21 Aug couldn't find any. Owls, however, common from where I had seen so many, & the there isn't nearly as much mud.

22 Aug Left Charata. Saw a tapir (3/4 grown) on the top of a bus heading from Filadelfia to Asuncion.
320 km NW Villa Hayes, Dept. Boqueron, Paraguay
Juan de Salazar Estate's ranch. Went with Bob Martin, who'd had picked up at Rio Verde (km 300, dbl Estate). Flipped palm roofs. Them are too many - almost all the bldgs have them. 20 a 30 at least. Found few bats, for we couldn't check a small fraction of the roofs. Also, quite a few were nailed down. Gave Martin a skunk, a Tadarida sp. & a M. nigricans & a M. albescens. Bat up 11
M. albescens ♀, 1 M. nigricans ♀, & 1 M. albescens ♂.
weather overcast Temp 15.5°C at 2PM, bats torpid.
300 km NW Villa Hayes, Dept. Boqueron, Paraguay
Welzlé camp at old abandoned Retiro of Estate.
Welzle, Martin, Wayne Lovett, & Arthur Rosenfeld, Phil Hazleton. Same place Berrie was last year. Their luck has been reasonably good. Lots imm. Felis geoffroyi adult coats, & adult fox have transmitters on them, & Lovell is following them. Have picked up Galictis, Procyon, & Eira (as a road kill, don't know where). Fewer rats than last year, despite effort. another 4 Oryz.

Wyeth plus 1973

Journal

300 km NW Villa Hayes rd. Dept Boqueron Paraguay

22 Aug — 1st day of the gray fox, one of the red headed ones. Martin been having bad luck mostly due to weather. But not trying to set over water a mistake. Lovett described his steel trap sets. He drags a dead carcass from a distance of up to a mile, up to the trap. Then buries it. Sets the trap in shallow hole 6-8" away, covers with plastic to keep dirt from under the treadle then sprinkles w. dirt. Fish drags called for, other meat, anything. Considers 5-10% trap success good. Result of method is that it looks like something has buried a kill & other stuff comes to dig it up & get caught.

23 Aug — went out w. Lovett. He picks his trap sets about as I would. Ravines leading into river bed are particularly good. Lots of tracks along the R. Verde near their camp. Peg, deer, cats, mostly, muskrat, a tapir. Saw a crochet.

Weather broke & cleared midmorn. Warmed up. Temp 25-27 in mid afternoon. S. E wind. 290 km NW Villa Hayes rd. Dept. Rte. Hayes ~~Boqueron~~, Paraguay. Coma J Thorp again. Weather was so nice we decided we'd better return & met the pond near the house & the well near the corkscrew where we heard bats. Walked over to the corral & listened, heard nothing.

Wyss
Phil
1973

Journal

290 km NW Villa Hayes rd, Dept. Pte Hayes, Paraguay

23 Aug But after dark in another area (the palm roofs (bunkhouse roof) there were cheepies. The increasing E wind screened up the net over the pond, caught only one M. nigricans. From the roost we caught, 8 ♀ albescens, 1 ♂ albescens, 17 M nigricans + 4 M. obscura (gave to Martin). Many bats escaped (went thru net). Quit 7:30 PM. clear, increasing wind, temp about 20°C.

24 Aug Strong N wind. 6:30 AM temp 14.5°C, 7:30 AM 19°C. did the bunkhouse roof. Very rotten, not many appropriate boards. Bats torpid, but not very. a few escaped. Our grp w. 7 ♀ M. nigricans, & 1 grp w 10 ♂ & 29 ♀ M. nigricans. 1 solitary M. nigricans, & 1 large grp. 49 M. nigricans, 6 ♀ M. albescens, & 13 ♂ ♂ M. albescens. One of the ♂'s was a recapture, & bat captured here, taken to Charria & released there on Aug 20.

Met Weltzel & Lovell at 12 Noon, went on to Charria.

275 km NW Villa Hayes by rd, Dept. Pte Hayes Paraguay

walked over to the old chacra across the river with Lovell & Weltzel. Caught one of the large hairy armadillos (tatu' poyu') which we tried to get back alive but it later escaped. Feces full of small (¼"-½") white & red nematodes - a seething mass. Pig sign, tho not much. (Not as many dicky birds as a month ago, & hardly any of the vermillion crowned fly catchers. Pale thinks they may have been migrating

Mayes
Phil
1973

Journal

24 Aug 275 km NW Villa Hayes rd. Dept. Pte. Hayes, Paraguay
time. Then walked downstream along the 5
bank to the next dam, crossed it, & explored
the area immediately on the other side. I shot a
Tamandua & which I gave to Watzl. It was one
with a white body & a black collar. He asked if
I remembered how many were like this & how
many had the rear half of the body all black
My best recollection is that either 2 black to 4 white
or 3 & 3, not counting this individual.
This beast was in palm swamp, scratching around
in grass. I couldn't figure out what it was trying to get.
After dark I went out with Alvarenga & Lovell
Lovell has a 12 volt sealed beam lamp, which
has a red lens & throws a better beam than a car
headlight. It runs on a small 1'×8"×8" (+) car
battery, probably weighs 15 lbs or so. I carried it
easily in my knapsack. Before we left I shined it
directly in the eyes of a dog from a distance of only
a few feet. No pupil contraction at all. Yet it
illuminates adequately for at least 150 ft
probably more. Went out by the dam. Shot Tiny
shot a Felis geoffroyi, a very large ♂, & I shot
one of the red faced foxes, which I gave to them (many
lost hair on tail & part of hind legs). Saw 2 or 3
other foxes. Quit at 9:15 P.M. Windy (the it
died somewhat for an hour or 2 around dark), very
warm (~30°C), partly cloudy. For the

Meyers
Phil
1973

275 km NW Villa Hayes by rd. Dept. Pte. Hayes, Paraguay

24 Aug even if ~~it rained~~ they were periods of overcast alternating with ~~sunny~~ clear skies.

25 Aug overcast, N wind which quickly shifted to S. temp ↓ We heard it. On the way back there were intermittent drizzle & 2 periods of rain, but the road remained opened. Lots of dead Tarandra, just most badly torn up. 2 were ~~DOA~~ less badly damaged than the others. 1 black & 1 leg bit. But in too much of a hurry to see much. Made it to Villa Hayes in 5½ hrs despite bad condition of road. Poor car.

130 km NW Villa Hayes by rd, Dept. Pte. Hayes, Paraguay

29 Aug clear, cold in 14th picked up a road-killed Procyon carnivore. Several ponds near the road, but vegetation is mostly thorn forest xerical (Prosopis)

226 km NW Villa Hayes by rd. Dept. Pte. Hayes, Paraguay almacen Ca-i. Lots of palm roofs here. We flipped a few. Found Tadarida, Myotis albescens, & N. nigricans. Collected no rat. We saw large #'s of no sp, but we didn't flip many logs. We did collect 2 Tropidurus which were flattened hard against the surface under separate logs in the roof. ~~really~~ had margin surface area in contact with the wood. Air temp warm - at least 20°C, probably more like 25°C. Clear, 5 wind.

30 or Aug 300 km NW Villa

Wayes Phil 1973

Journal

300 km NW Villa Hayes rd., Dept. Boqueron, Paraguay

29 Aug arrived 3:30 PM. Ecelon's line camp at the R. Verde, site of Wilzes' people. Lovett & Martin here. Lovett marked a fox, a Felis geoffroyi, a coati & a grison all with radio transmitters. All (but the grison) have been located several times, which pleases Lovett no end. Martin still hasn't gotten around to doing much with bats - too many other duties. They do have some vampires, now, but none yet with transmitters. Drove out on the Transchaco for ~~20~~ 15 km saw little - only one Tamandua (white back) at km 315, which I left alone. Went out a. Lovett after dark. Saw a few eye, mostly deer. Hot much moving. Weather cool, temp probably 17-18°C, alternately clear & overcast, strong swamp

30 Aug ~~clear & cool~~, partly-mostly cloudy. Walked along R. Verde for a ~~few~~ mile or so, one sandy-gray. 20-25 collared peccaries crossed near (9 AM) 12 noon, I didn't get any. going from marsh on one side to marsh on the other. Forest 30-40 ft high (±), dense, lots of bromeliad on the ground. Dry. Much sign of rooty & pig & deer droppings. On the mile I had we saw tracks of 2 kinds of pigs, deer, tapir, fox, small cat, medium sized cat (ocelot?), ~~&~~ with lion (at least 2 individuals one small), crab eating raccoon, grison, perhaps capybara, & lots of each kind.

Myers
Phil
1973

Journal

300 km NW Ciudad Hayes by rd. Dept. ~~Pte. Ho~~ Boqueron, Paraguay

30 Aug There is a family of deer that lives on the lake by the cabin 6-7 years, not yet able to fly. Also saw 3 Toco toucans & a trogon.

3 Nets up over the river. Water is very salty, saw few small fish. But there are lots of insect life (& flying, including a few mosquitos). Cool temp about 17°C, partly cloudy, strong swirling river level is dropping, but that it doesn't affect the nets. Caught 8 Noctilio ~~leporinus~~ + 2 that escaped. Heard crashings in the bushes, either pigs or a tapir. Out with Lovell again, but saw nothing.

31 Aug partly cloudy, ~~3 AM~~ temp 15°C. still strong winds. Tapir track near where we heard the crashing last night.

Lots of the legumes blooming. odor very strong in places at night. The ~~tapa~~ palo borracho are in fruit - kapok like. Many cactus fruits ripe also.

We've been watching ~~for~~ the wood parakeets. In the morning, up until 9 AM or so, we see flocks of several hundred birds. ~~Every~~ Periodically they fly up 15 or 20 feet, wheel around in a complete circle & a flock of up to 20 or 30 split off. As it moves away from the main group it splits up, each group of 4-10 going off

Meyers
plus
1973

Journal

300 km NW Villa Hayes rd. Dept. Boqueron, Paraguay

31 Aug in all directions. Saw this repeatedly.
Lakes are dry; this day we see only the small
flocks, except where food is concentrated.
Picking up 4 Q bats from last night, all pregnant.
gave the rest to Martin

1 Sept 458 km NW Villa Hayes rd, Dept. Boqueron, Paraguay
left R.V. ende early. drove into Filadelfia, filled up on
gas & water. arrived here around 3 P.M. Hot - temp in upper 80s
south wind, clear skies. Set Wetzel 12 Macabee
gopher traps + 1 steel trap in the two holes. These
are located on a slight rise, soil not noticeably
different from surroundings. Vegetation is
called bermuda & bunch grass. Lots of bare
earth. The holes are all plugged, some
very freshly. There are hundreds in an area
of about a hectare. They seem to be more than
when we were last here. The holes themselves
were occassionally (daily) a bar, diamond
chuckle like socks given underground. One
would call + (panting) other would answer, but never
more than are at a time. Then there would be a
long silence. I hear them back at night &
during the day, the most during the day.

By the time I had finished setting the
traps (about an hour) the first had been set
off & the tunnel replugged. Eventually
all opened tunnels were replugged & I always

Mary Phil 1973

Journal

458 km NW Villa Hayes, Dept Bogueron, Paraguay

1 Sept tried to push freshly plugged holes. Older holes had plugs several feet long, new several inches or more). Hole dia 3 inches or so but moisture widened out to as much as 5-6". Most traps sprung at least once, but caught nothing.

At least 2 geckos seen in vicinity of holes. I think they came out of the holes, but I'm not sure. Tonight I. After that I waited for me can hear for more geckos, but never saw any.

Saw a rabbit also near the trap area. Lots of deer sign. Set out frog lures at night along the road, saw mostly silent 2 toads by two holes at about 10 PM, as we left.

2 Sept Clear, cold morning, 5.5°C at 6 PM. Left around 10 AM, have to Mariscal Estigarribia, then 14 to about km 530. Baby started vomiting regularly, so we gave up & returned. Vegetation lower, fewer big trees, extremely dry (in fact, very dry also between Filadelfia & Mariscal Estigarribia). Saw 4 Patagonian hares cross the road in this area, couldn't get any very hot, temp about 90, but strong winds sometimes.

466 km NW Villa Hayes, Dept Bogueron, Paraguay

Baby better, so we camped here rather than go into Filadelfia. Saw 2 more Patagonian hares. Funny that we'd never seen them before. They were crossing the road just before dark. Pete (picked up + put on ground) found a large, brightly colored frog hopping in the dry brush, which I collected. Nothing at night out by our house. Have distilled?

Meyers
Phil
1973

Journal

466 km NW Villa Hayes by rd. Dept. Boqueron, Paraguay

3 Sept Clear, but not so cold. about 10°C at 6 PM. Left, met Martin & Lovett accidentally at the drive into Salazar.

425 km N Villa Hayes by rd. Dept. Boqueron, Paraguay

Forgot that at a small pond here I shot a greater yellowlegs & Temminck's pond. Bird was with another, smaller sandpiper. Shot a Pectoral sandpiper further down the road (Pete's note & catalogue), & at Salazar ~~we~~ km 320 we saw 17 golden plovers & a couple of buff breasted sandpipers. Also Solitary sandpipers & black necked stilts. Slept at the R. Verde line camp, rejoined 1 AM putting up birds.

50 km E of km 320 on Transchaco hwy, Dept Boqueron

4 Sept Paraguay. Part of Estancia Rancho Juan de Salazar, which has its headquarters at km 320. arrived by a little west road. I think 50 km is an approximate linear distance. The name of this place is Campo Flores. Road in very interesting, a good cross section of chaco habitats. Mostly low mesquite. Picked up 2 collared peccary skulls. Lovett got a coati carcass. 2 very large lakes, look natural, at least several km² of water. very dense vegetation around edge. Many birds, including sandpipers. Shot a Wilson's phalarope, which Pete put up.

Came out to this place because the people

Meyer
Phil
1973

50km E of km 320, Trans Chaco hwy, Dept. Boqueron, Paraguay

4 Sept Mike had reported 15 cases of bovine rabies, & Zors (spelly?, Eaton's partner) asked us to come have a look. But couldn't see anything, ~~cattle~~ cattle are long dead & now currently dying. But, on learning of our interest in bats, a couple of the "personale" proceeded to grab us 10 or 12 Nyctinomus brazilensis from under palm roofs. Saw at least 30 or 40 rhea in a large grassy field on the way out. On the return trip (3-6 PM) shot a deer, Lovett shot a deer, saw a herd of ~~deer~~ Cervidae & ~~etc~~ a couple of other deer. Wind now hard from the NE, temp well over 30. Very dusty.

300 km NW Villa Hayes turn-off, Dept. Boqueron, Paraguay

Got in well after dark, after eating at Salazar. Still hot, strong N wind. Guggliani & Janie Doll (Peace Corps) had arrived, & said that from Asunción they had been listening to the 5. Debated leaving immediately, decided not.

Lots of mosquitos around dusk, but they mostly disappear after dark. Other insects also common — i.e., lots for bats to eat. Also the ~~only~~ Prosopis continues to bloom, along with what may be Tapachos (a scrophulariaceae?).

5 Sept Left 9:30 AM. Weather hot, wind now NW. Clutch(?) went out, fortunately in Cerrito (18 km from Jerry). Finished up ignominiously at the end of a tow rope.

Myers
Phil
1973

Journal

227 km NW Villa Hayes by rd, Dept Pte. Hayes, Paraguay

21 Sept 1973 Left Asuncion (Almacen, Ca i) 6 AM. Weather cool, temp in 50's - 60's. a weekend or Madres first summer weather, w. temperatures in mid - upper 30's, & clear - partly cloudy humid days. Also the first summer rain, heavy, brief, w. lightening. But local Int'l Chaco, out this far, it hasn't rained for 2 months. Water levels very low, lots of the roadside ponds are dry. Dust not too bad.

Some ~~Prosopis~~ still blooming. The Para tecoma tree - a big yellow (cognac) Bignoniaceae? - just beginning to bloom, ~~but~~ startling are the leaf colors. Apparently the Prosopis is deciduous & lost its leaves some time ago. We hadn't noticed. But now new leaves, bright yellow green, are coming out. It's very striking.

Due to cold & low water, insects are scarce. a few mosquitoes.

Pedd (road killed) maned wolf at km 160. Very badly smashed. No dead fox, but are on abnormal # of dead cattle. Apparently they come to the ponds for water, get stuck in the mud & expire. Even if they're hauled out they're generally so thoroughly exhausted themselves that they die anyway.

Arrived at Ca i (km 227) at about noon. Numerous but minor car troubles on the way out. Looked under palm logs for bats, found

Mexico Pilot 1973

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227 km NW Villa Hayes log, Dept. P.C. Hayes, Paraguay

21 Sept few. Marked & released nine Sept 4. Had nearly M. nigricans, solitary 8's.
Sol type ylwpt, nine solitary M. nigricans 9's.
intended to mark & release all but got so few not worth while. Trouble is that too many of the roofs are appropriate for bats, but not for us — ie, we can't raise the bags. Complete Tropidurus, 1 Tadarida. Air temp about 22-23°C, bats all active. Many more escaped than we caught.
Caught a tufted frog also under the palm roofs.

226 km NW Villa Hayes log, Dept. P.C. Hayes, Paraguay

From Coré we went back to Pirahú, km 226. From the Shell station there is a driveway leading 3-4 km in to a ranch, Siete Horizontes, located on the Siete Puentes river. Small about 9 people in residence. 1 large abandoned building with a tin roof underlayed by palm strips. Several other buildings with same construction. Mud walls. The abandoned building, meat shed, & one of the others all support populations of thousands of bats. The meat shed housed mostly molossids (by smell & squeaking) the others mostly Myotis but w. some molossid. In the abandoned building there is 3/4" of feces over the floor, & bats lining the roof & walls when it gets hot according to the women who showed us around (Sra. de Leon the encargado's wife) the bats move down the walls in great #'s. I found a ladder & climbed to where I could reach the ceiling. I grabbed

Mayer Pub 1973

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226 km NW Villa Hayes Dept Pte Hayes, Paraguay

21 Sept. Just back of hut, I was pelted by ants, as they fell from trees. At first I could tell M. nigricans & M. albescens were present, noticed separate, certain all I saw were in very tightly packed masses. Air temp about 23-24°C (no thermometer), room about 20°C, Rel. Hum. No sign of young of any spp. 12 ♂ M. albescens 9 ♀ M. albescens, 3 ♀ M. nigricans. All ♀'s pregnant, bones (humerus) of those near term generally noticeably thin & brittle.

270 km NW Villa Hayes, Dept. Pte. Hayes, Paraguay

Very dry! Has been 2 months since any significant rain. The water level in the pond is ~~[illegible]~~ 2 feet or more low - some are completely dry. The mud around which has caused a serious problem with the cattle - they become mired & die. The viral (Prosopis) leaves are withered, as are at most of the introduced plants. A cacher (cattle rancher) told temp 25°C or a little more. Sunrise. Partly cloudy. Alvarenga had shot a cure-i (collared peccary) across the river, & saved me the skull. He'd also blown the head off a Felis geoffroyi caught - literally in the chicken coop - such is the effect of a 16 gauge at 2 meters.

22 Sept Temp at 5:30 AM about 15°C. Rained. We did all the palm roofs between 6 & 9 AM then left - See notes under the "marked bat" section.

270 km NW Villa Hayes Dept. Pte. Hayes, Paraguay

22 Sept Most notable was that over 90% of the bats were marked. Several skulls, & one Phyllostomus plus nest (made of wool) & 4 babies, barely haired. They were over the sleeping pen. Most of the bats were M. nigricans by 9:30 temp was 22-23°, bats became

290 km NW Villa Hayes Dept. Pte. Haye, Paraguay arrived 3 PM. H&P temp 27-28° in sc, wind & clouds now from N. Talked to Peterero, Don Carmeno asked him - to ~~save~~ wild animal ~~the~~ skulls for mo. Enthusiasm. Heard bat in wall of cook shed & rain house. 2 Nets up, at each of these places. 12 M. nigricans, 3 M. molossops. ~~Tetas~~ Released the M. nigricans after marking them. Kept the M. molossops for Martin. all bats came from the cook shed.

23 Sept clear & cool, temp 15-17°C at sunup. immediately did the roof over the corral. Bats quite active. At least ½ of those in the first large group we encountered escaped, all of those in the 2nd got away. Nevertheless, eight bats were taxpid. 3 Tadarida, taxpid. By 8:30 the temp was over 20°C, we left. On the way out, not far from the house, we met one of the men with a dead fox. Paid 50 G's for the skull & carcass — he kept the skin. Also got from him about 10 .22's Dasypus - with the red head & feet. Partly cloudy, light north wind, ~~clear~~ high clouds, sl. hazy. Lot of

Nyer
Phil
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190 km NW Villa Hayes by rd. Dept. Pte. Hayes, Paraguay

23 Sept people burning their fields.

Many legumes (mimosaid) are blooming.

300 km NW Villa Hayes by rd, Dept. Boqueron, Paraguay Lovell & Martini's camp. Stopped off for a day. They have, in addition to the previous animals, a coatie, fox & tamanduas & a 3 banded armadillo pitlop with collars also 2 Nocteles Cyprinus. Still trying to get deer. Indians bringing in large #'s of coatis. The new man, Jamie Dahl (Added) is mouse trapping, claims all the mice right around here have been trapped out (?).

Lovell says that to hotel in Filadelfia costs 600 ₲/night for 3 people, for room alone - no food

Saw 2 more toucans. Also saw 2 of Chaunca. They must migrate

Many fresh tapir tracks & droppings (?, oval, about 1" long x 3/4" wide) along the R. Verde.

410 km NW Villa Hayes by rd, Dept. Pte Hayes, Boqueron, Paraguay

24 Sept Day hot, calm, & hazy. Sl. S wind. Max temp in high 30's. We left R. Verde early, got to Filadelfia around 0:30 AM, did our shopping, & packed this spot to camp at. arrived about 2:00 PM. On the S side of the rd. there is a naturally clear field of several

Myers
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~110 km NW Villa Hayes rd. Dept. Boqueron Paraguay

24 Sept ha. Brush grass, some forbs bordered by thick & thorny forest & few tree, including a very large Palo borracho. The field is full of Ctenomys burrows tho we heard none of the tuco tucos calling. Set 4 steel traps in burrows, after digging out the plug. On the N side of the road is thorn forest. There is an old road leading back into it which has been recently heavily used for logging Palo Santo. Typical alto Chaco thorn forest - few trees, open, few lots of bromeliads etc. Along this road I set about ~~20~~ 25 snap traps, a few dup in trees most in old piles of brush left by the bulldozer when the road was made. Along the edge of the field went about 30 snap traps & in the field itself where the brush grass was thickest I set about 15 snap traps & along the transects put about 10 in heavy cover spots. The only actual mouse sign was in the grass, where there were lots of small droppings. Guinea pig sign everywhere & while I saw 3 or 4, they were nowhere near as abundant as they are at km 425. Some rabbit droppings & I saw a rabbit. No sign of the Patagonian hare, (the Toro saw up the track as the cutoff to Filadelfia, km 430). Killed 2 lizards with dust shot, both Tropidurus & we picked up the rotting

Mygery
plot
1973

Journal

410 km NW Villa Hayes Rd. Dept Boqueron Paraguay
24 Sept head of a giant anteater (Myrmecophaga) that someone had cut off & left by the road. (There were a no. of campfires only a few days old, & lots of the sticks they use for mosquito nets, where we camped. Probably the Palo Santo cutters stayed here, at least for several days).

25 Sept Day dawned hot, hazy, partly cloudy. N wind. Ran the traps last night, picked up 1 Phyllotis & 1 Marmosa ~~in the~~ along the dirt road, along the Trans Chaco I got 1 Akodon ~~&~~ also in the field) Caught 2 more Akodon & 1 unknown (like Phyllotis). In the morning I picked up another Marmosa along the dirt road, a Monodelphis also by lighting, & a small unknown red mouse on top of a fallen tree trunk at the edge of the field & 2 more of the phyllotis-like unknowns in the field. 2 of the Clevenger traps were plugged w dirt (ants spray), but the rest had been ignored. Stopped at Pozo Verde to let off Dahl (who had gone to Filadelfia with us) & to skin the mice. ~~at the~~ & it temp at 3 PM ~~38°~~ C.

275 km NW Villa Hayes Rd. Dept Pte. Hayes, Paraguay arrived 4 PM. Strong N wind, but it died about 5 & we put out 5 nets (over 3 ponds). All were near palm swamp. Saw 6 or 7 pigs along the road, all near ponds. Many bats. Lasiurus first (on wire), then the Molossids.

275 km NW Villa Hayesbyrd, Dept. Pte Hayes, Paraguay

25 Sept Big night for Tadarida. No sign of the Antillean or Desmodus. Totals were 34 small, mic. molossid, 3 E. nanus, 2 Nyctinomops laticaudatus, 2 Lasiurus ega, 1 L. borealis (?), & 5 Eptesicus. Alvarenga & friends went out across the river (by the old Chaco) ran into a herd of 200 white lipped peccary (his estimate). They killed 16 & spent ½ hr in trees waiting for the others to leave. Saw a dozen or so foxes. Killed 4. all the gray Cerdocyon.

26 Sept Day dawned hazy, S wind. distinctly cooler - daily max. about 35. Mixture of dust, humidity & smoke in the air thick enough that sun never emphasized the only partly cloudy. By noon the S wind had died. Alvarenga's baby sick, so we decided to head back. Left 10 AM.

227 km NW Villa Hayesbyrd, Dept. Pte Hayes, Paraguay

stopped briefly for lunch & to complete my N. yatay Myotis sample. Caught 4 ♂'s just what I needed. Saw, but did not try for, a Tadarida. all bats active, agility required. Left 12:15 P, arrived Asuncion 5:30 PM.

Parkette Asuncion Paraguay

20 Oct picked up one of the weird fossorial snakes? Sandy soil in the garden. Torrential weather, hot, humid, sometimes threatening

28 Oct 2 nets up over swimming pool, which basically

Vargas Phil 1973

Recoleta, Asuncion, Paraguay

28 Oct about 15" of water in it. Night warm, about 75°F, partly cloudy, no wind. 3 bats - one Lasiurus borealis, one Eptesicus, & 1 Molossus. all ♀'s, all pregnant.

29 Oct same 2 nets. slight S breeze, temp 65°, partly cloudy. no bats. lots of frogs calling, at least 4 spp (one a hylid, a leptodactylid) & Bufo marinus & the frog with a call like a cat's meow.

31 Oct cold, rainy. temp in 60's. The nelsons collared sparrows are building nest again, for the 2nd time this season (I think).

according to Ed Borgeson, long time Paraguay resident, there is still a large population of jaguars in the hills of Amambay & Alto Parana, Caaguasu, etc. He said that a year ago, driving back from Salto de Guaira (on to Parana) at night & on a poor dirt road (the only road to S. de G.), he saw 6 tigres crossing the road. The 6 may be inflated, but I believe there were several. Also in the newspaper La Tribuna Oct 25 1973, there is a story of a man attacked by a jaguar in this region.

Trans Chaco hwy to km 130, Dept. Pte. Hayes, Paraguay

12 Nov. We made an attempt to get to the bat roost at km 220, but were turned back by rain at km 130. (went in Lee Donnels' Chevrolet (Wagoneer style). Water level in the swamps

Meyer
Pub
1973

12 Nov. Trans Chaco Survey to km 130, Dept. Pte. Hayes, Paraguay is about as high as it gets & according to the man ~~people~~ at km 100 who has relatives at km 300, Salazar (320) received nearly 50 mm of rain last week. The first this year of significance. Up to about km 180 were many lumpkins & snail kites, where we would normally see 10's 2 there were dozens. Also minutes snail kites. A big year for snails? Saw a fair # of water birds, especially the white faced tree duck. But nowhere were there the big concentrations of herons & ibises & storks that we saw almost a year ago. Day was mostly partly cloudy & cool, & we saw many more birds than usual.

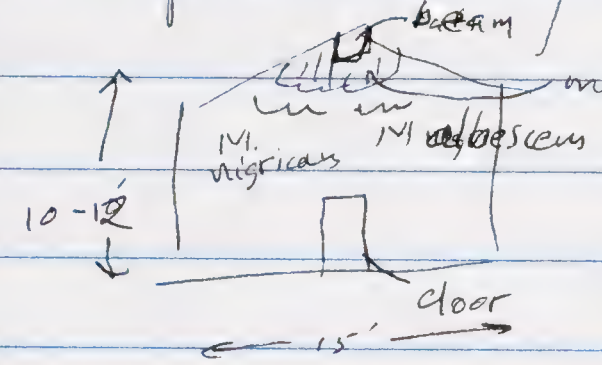
21 Nov 226 km NW Villa Hayes Hyrd, Dept. Pte Hayes, Paraguay day trip to estancia Siete Horizontes, to get a bat sample. Weather was clear, calm, temp 30-33°C. ~~Left~~ crossed the Paraguay on the 7 AM ferry, made it to the ranch at 11:30. Very, very fast - went in the family station wagon & father drove. Bats were as before - hundreds in 3 roosts. This time there were observers gaining clinging to the walls, mixed in with ♂'s & ♀'s M. nigricans & M. albescens. While I could see no segregation from the floor, the first batch taken from the right hand side of the mass & from the rafters nearby, was almost entirely M. albescens, ♂'s & ♀'s in equal #'s. The next batch came from the left hand

Myers, Phil 1973

Journal

226 km NW Villa Hayes (cont'd, Dept. Pte Hayes, Paraguay

21 Nov. side of the mass (no more than 18" from the first sample & at the same level) were all *M. nigricans*, with ♀'s predominating. ie,



The young, when separate from the ♀'s are easily seen & distinguished by their grayer pelage. Gates we flipped palm logs on the outside roofs & caught a # of *M. nigricans*. Several soldiers ♂'s, one group of 27's & 10 ♂'s surprising, even tho the temperature was at least 33°C. The bats were almost all easily caught. Picked up a *Tadarida* (bats released) & a *Molossus* from a separate roost. At in a nearby bldg, the we then saw them also in the main *Myotis* roost.

The road is dry, the last rain about 10 days ago. There has been sufficient rain at last however; the countryside is greener, & the cattle are fattening up (the still thin)

Palms all blooming. Water hyacinths & other water plants also. Insects not bad — a few mosquitoes. Still lots of snail kite. Over one field (10 ha) I counted over 30, & in one bush alone there were 10. We didn't

Uruguay
Phil
1973

226 km NW Villa Hayes, Dept Pte Hayes, Paraguay

21 Nov. See as many limpkin this time as last, the
ibes were at least 150 20. Feeve birds in general.
4 or 5 dead armadillos on the road - which is 4 or 5
more than usual.

The bats had little or no fat. ~~Most~~ Most ♀'s
were lactating or pregnant or both. 5 of both
sp. were in breeding condition. Most D passed
the following day, so weights are a little off. Those
that I did the day after that were not weighed.

27 Nov Recoleta, Asuncion, Paraguay
actually Mariscal Lopez 2003, across from the Argentine
embassy. Mrs. DeBarros called me to report a bat w. 3
young was at their home. I went, found a ♀ Lasiurus
borealis with 3 nursing young under a sheet in the grass.
They had apparently fallen from a mango tree. Med S
wind, temp in low 80's, clear. all 4 preserved in formalin.

30 Nov back at home (Choferes del Chaco, about a km of above)
16" net up over swimming pool. Caught 3 Eptesicus, 2 Lasiurus
borealis, 3 L. ega. net closed 10:30 PM. Warm, temp ~ 85°F,
clear, no wind. Later same night a front came thru,
weather turned overcast.

1 Dec 17 km E of Luque Hwy. Dept. Central Paraguay
went out 5:15 PM with Lee Darnell, looking for birds.
Overcast, temp in high 70's & low 80's. No wind at
first but by 8 or 8:30 a mild S wind had come up &
the temp dropped 5 or 10 degrees. Drizzle after 8:30,
when we left. Walls is high, perhaps 4 feet

Meyer
Phil
1973

17km E Fuerte Olyn rd. Dept Central, Paraguay

1 Dec. higher than in September (when it is lowest). Vegetation fresh green lot of flowers. ~~Buddha~~ Birds were excellent. Despite our late arrival (2 nets not up until 6:30 ℄) we caught 8 birds 7 species. overcast helps. In addition I shot a blackish blue seedeater, & we saw a greater than average # of birds. Also notable were the # of guinea pigs along the road near where we parked. We have always been able to find some sign here, but today we saw at least 10 or 15 animals. They are larger than the Cuiaba sp., but have the same habit of sitting by the edge of the road & occasionally running across. They are quite wary.

Bird list: white headed marsh tyrant, pied water tyrant(?), shortcrested fly catcher,* long crested tody tyrant* kiskadee, vermillion crowned flycatcher, plush crowned jay, green ibis, thornbird,* masked gnatcatcher* red crowned finch, grayish saltator* golden billed saltator, rufous browed peppershrike,* white woodpecker, smail kite, rufous hornero, crested caracara, picui ground dove, purple winged ground dove, red crested cardinal, whistling heron, striated heron, guira cuckoo, smooth billed ani, black headed parakeet, white rumped swallow, common snipe, white winged nightjar, black headed Brazilian, jacana, great rufous woodcreeper,

Wyley
Phil
1973

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17 km E of Laguna Negra, Dept Central, Paraguay

1 Dec narrow bulled ~~Hooded~~ Red woodcreeper, blackish blue seedeater.* blond-crested woodpecker Starred birds ~~were~~ were either netted or shot.

The seedeater has the ~~flutter~~ singing habit of perching on a fence or bush, ~~flying~~ & flying vertically up 2-3 feet & twittering. repeated at 10 or 15 sec intervals.

Piraretá, Encarnación, Paraguay

E ladies stopped by, & we talked about Guarani animal names. a Mutia is Kyya. The strange fossorial snake is Y By Ya. Y By means earth, "Ya means something that moves in".

Myers, P.

1974

catalogue

#1300 - 1623

California

Myers Phil 1974

Catalogue

Life Sciences Bldg., Univ. Calif. Campus, Berkeley, Alameda Co. Calif.

Colby N.K. Johnson

4 April 1300 ♀ vag. open, pel. notched — 110 x 47 x 8 x 12 x 6 = 12.9

Red Barn, National Seashore headquarters, 1 mi. W. Olema, Marin Co. California

9 April 1301 ♀ vag op., pel. notched, uterus sl. swollen, vascular — fluid preserved 86 x 36 x 10 x 15 x 8 = 5 gms

1302 ♀ vag op., pel. notched, uterus sl. swollen, vascular — fluid preserved 83 x 33 x 10 x 14 x 8 = 5 gms

1303 ♀ vag op., pel. notched, uterus sl. swollen, vascular — fluid preserved 84 x 36 x 10 x 15 x 8 < 5 gms

1304 ♀ vag op. pel notched — fluid preserved 82 x 34 x 10 x 15 x 8 = 5 gms

1305 ♀ vag. op. pel. notched, — fluid preserved 83 x 35 x 9 x 14 x 9 = 5 gms

1306 ♀ vag. cl. pel. notched, uterus. sl. swollen, vascular — fluid preserved 89 x 38 x 10 x 15 x 9 = 6 gms.

1307 ♀ vag. op. pel. notched, uterus. sl. swollen, vascular — fluid preserved 82 x 34 x 10 x 14 x 8 = 5 gms.

1308 ♀ vag. cl. pel. notched. uterus. sl. swollen, vascular — fluid preserved 81 x 34 x 9 x 14 x 8 = 4 gms.

Muddy Hollow, National Seashore, Marin Co., California

1309 ♀ vag. op. pel. notched, preg, rt, swell = 5. — fluid preserved 83 x 34 x 9 x 14 x 8 = 4 gms.

1310 ♀ vag. cl. pel. cl. ? — fluid preserved 83 x 33 x 9 x 15 x 9 = 4 gms.

1311 ♀ vag. cl. pel. notched, preg, rt. swell = 2 — fluid preserved 84 x 34 x 9 x 15 x 8 = 5 gms.

1312 ♀ vag. cl. pel. notched, preg., rt swell = 3 — fluid preserved 83 x 36 x 10 x 15 x 8 = 4 gms.

1313 ♀ vag. open, pel. notched, preg. rt, swelling 5mm — fluid preserved 83 - 36 - 9 - 14 - tr 8 = 5 grams

1314 ♀ vag. cl., pel. notched, — fluid preserved 85 - 36 - 9 - 16 - tr 8 = 5 grams

1315 ♀ vag. cl., pel. notched, — fluid preserved 83 - 35 - 10 - 15 - tr 9 = 4 grams

1316 ♀ vag. cl., pel. notched, swollen + vascular — fluid preserved 88 - 37 - 10 - 16 - tr 8 = 5 grams

1317 ♀ vag. cl. pel. notched, preg. rt. swell. = 2. — fluid preserved 83 - 34 - 10 - 14 - tr 8 = 5 grams

1318 ♀ vag. op. pel. notched. preg. rt. swell = 2 — fluid preserved 84 - 35 - 9 - 14 - tr 8 = 4 grams

Red Barn, National Seashore headquarters, 1 mi. W. Olema, Marin Co. California

1319 ♀ vag. cl. pel. notched, preg ?, Swollen = 1 — fluid preserved 86 x 36 x 10 x 15 x 7 = 5 gms.

1320 ♀ vag. op. pel. notched. preg. ?, Swollen = 1 — fluid preserved 83 x 34 x 10 x 15 x 8 = 4 gms.

Myers
Fluid
, 74

Catalogue

Red Barn, National Seashore Headquarters, 1 mi. W. Olema, Marin Co. California

		vag-cl. pel. notched, preg. ?, Swollen = 1	fluid preserved
9 April	1321 ♀	Myotis yumanensis	86 x 35 x 10 x 15 x 8 = 5 gms.
	1322 ♀	vag. op. pel. notched, preg. rt. Swollen = 2	fluid preserved 86 x 37 x 10 x 15 x 8 = 4 gms.
	1323 ♀	vag. op. pel cl.,	fluid preserved 82 x 35 x 9 x 14 x 8 = 5 gms.
	1324 ♀	vag. op. pel. notched, uterus sl. swollen, vascular	fluid preserved 84 x 35 x 10 x 14 x 8 = 4 gms.
	1325 ♀	vag. cl. pel. notched, preg. rt, C.R. = 5	fluid preserved 83 x 36 x 10 x 14 x 8 = 5 gms.
	1326 ♀	vag. cl. pel. notched, uterus sl. swollen, vascular	fluid preserved 86 x 36 x 10 x 14 x 9 = 5 gms.
	1327 ♀	vag cl. pel. cl. uterus sl. swollen, vascular	fluid preserved 85 x 33 x 9 x 15 x 8 = 4 gms.
	1328 ♀	vag. cl. pel cl. preg. rt. swollen = 5.	fluid preserved 86 x 37 x 9 x 15 x 8 = 5 gms.
	1329 ♀	vag. cl. pel. cl. preg. rt. swollen = 4.	fluid preserved 81 x 34 x 7 x 13 x 8 = 4 gms.
	1330 ♂	Myotis californicus T = 3, SV = 2	fluid preserved 80 x 34 x 6 x 14 x 8 = 3 gms.
	1331 ♀	vag-op. pel. notched, preg. rt. Swl. = 6	fluid preserved 86 x 37 x 10 x 20 x 12 = 6 gms.
	1332 ♀	Myotis thysanodes	fluid preserved 95 x 39 x 10 x 19 x 9 = 6 gms.
	1333 ♀	vag cl. pel. notched, uterus sl. Swll. vascular	fluid preserved 90 x 35 x 9 x 18 x 10 = 6 gms.
	1334 ♀	vag cl. pel. notched, preg. rt. Swll. = 4	fluid preserved 91 x 35 x 10 x 18 x 11 = 6 gms.
	1335 ♀	vag cl. pel. notched, preg. rt. Swll. = 6	fluid preserved 92 x 35 x 10 x 19 x 11 = 6 gms.
	1336 ♀	vag cl. pel. notched, uterus sl. Swll. vascular	fluid preserved 89 x 42 x 9 x 19 x 13 = 6 gms.
	1337 ♀	vag cl. pel. notched, preg. rt. Swll. = 6	fluid preserved 90 x 30 x 10 x 18 x 11 = 6 gms.
	1338 ♀	vag cl. pel. notched, cl. Lf. preg rt, swell. =	fluid preserved 91 x 34 x 9 x 18 x 11 = 6 gms.
	1339 ♀	vag. cl. pel. notched, preg. rt. Swll. = 7.	fluid preserved 97 x 35 x 9 x 18 x 10 = 6 gms.
	1340 ♀	vag cl. pel. notched, preg. rt. Swollen = 6	fluid preserved 94 x 38 x 10 x 19 x 10 = 7 gms.
	1341 ♀	vag cl. pel. notched, uterus swll. vascular	fluid preserved 94 x 37 x 10 x 19 x 10 = 6 gms.

1 mi. SE Inverness, Marin Co., Calif. ±25 ft

(Coll. 7 April 17 April)	1342 ♂?	+ Tissue + chromosome)	[8 1+] x [11+] x 16 x 6 = 10.7 gms

Muddy Hollow National Seashore, Marin Co., Calif. ~200 ft

		vag cl, pel stretched preg, R, Swell = 2mm	
1 May	1343 ♀	Myotis yumanensis	84 x 35 x 9 x 15 x 8 = 5. gms
	1344 ♀	vag cl, pel. open. preg, R swell = 1 mm	84 x 36 x 9 x 15 x 8 = 5. gms

Myers
Phil
1974

Catalogue

Muddy Hollow National Seashore, Marin Co. Calif. ± 200ft

1 May	1345 ♀	vag cl, pel sl. prog, R, CR = 8mm	87 x 38 x 10 x 15 x 8 = 6 gms
	1346 ♀	vag cl, pel notched prog, R, swell = 2mm	87 x 36 x 10 x 15 x 8 = 6. gms
	1347 ♀	vag cl, pel sl.	83 x 35 x 9 x 15 x 8 = 5. gms
	1348 ♀	vag cl, pel cl. prog, R, CR = 10mm	82 x 35 x 10 x 15 x 8 = 5. gms

Red Barn, National Seashore Headquarters, 1 mi. W. Olema Marin Co. Calif

1349 ♀	vag cl, pel notched prog, R swell = 3 mm	83 x 36 x 10 x [11+] x 8 = 3 gms
1350 ♀	vag cl, pel. not. prog, R CR = 6mm	91 x 36 x 9 x [15+] x 11 = 6. gms
1351 ♀	vag cl, pel. not. prog R swell = 4mm	92 x 38 x 10 x 18 x 12 = 6. gms
1352 ♀	vag cl, pel. not. prog R CR = 9mm	94 x 38 x 10 x 19 x 9 = 7. gms
1353 ♀	vag cl, pel. not. prog R CR = 7mm	89 x 36 x 10 x 19 x 11 = 7. gms
1354 ♀	vag cl, pel. not.	86 x 37 x 10 x 19 x 11 = 5. gms
1355 ♀	vag cl, pel. not.	87 x 36 x 10 x 19 x 11 = 6. gms
1356 ♀	vag cl, pel. not. prog R CR = 4mm	87 x 36 x 11 x 17 x 9 = 5. gms
1357 ♀	vag cl, pel. cl.	92 x 36 x 10 x 20 x 12 = 6. gms
1358 ♀	vag cl pel not. prog, R CR = 4	86 x 36 x 10 x 17 x 11 = 5. gms
1359 ♀	vag cl, pel. not. prog R swell = 3 mm	90 x 37 x 11 x 19 x 10 = 6. gms
1360 ♀	vag cl, pel not.	90 x 37 x 10 x 19 x 11 = 5. gms
1361 ♀	vag cl, pel not. prog, R, swell = 4 mm	85 x 34 x 10 x 19 x 12 = 4 gms
1362 ♀	vag cl, pel. not. prog, R swell = 3 mm	81 x 34 x 10 x 14 x 8 = 4. gms
1363 ♀	vag. cl., pel. not.	80 x 36 x 10 x 14 x 9 = 3. gms
1364 ♀	vag cl, pel cl prog, R, swell = 4 mm	78 x 34 x 10 x 14 x 8 = 3. gms
1365 ♀	vag cl, pel. not. prog R swell = 3 mm	82 x 36 x 9 x 14 x 9 = 4 gms
1366 ♀	vag cl, pel. notched prog, R CR = 5 mm	80 x 35 x 10 x 14 x 9 = 3. gms
1367 ♀	vag cl, pel. notched	84 x 37 x 11 x 14 x 8 = 4. gms
1368 ♀	vag cl, pel. notched	83 x 36 x 10 x 16 x 8 = 4. gms
1369 ♀		80 x 36 x 10 x 15 x 8 = 3. gms

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Catalogue

Red Barn, National Seashore headquarters, 1 mi. W. Olema, Marin Co. Calif

May	1370 ♀	vag cl, pel. shocked, preg? R swell = 1 mm	85 x 35 x 10 x 14 x 8 = 4 gms.
	1371 ♀	vag op., pel nat.	83 x 36 x 10 x 15 x 8 = 3. gms
	1372 ♀	vag cl, pel nat. preg? R swell = 2 mm	86 x 37 x 10 x 15 x 8 = 4 gms.
	1373 ♀	vag cl pel nat. preg R swell = 2 mm	82 x 35 x 10 x 15 x 8 = 4 gms
	1374 ♀	vag cl. pel. nat.	81 x 35 x 9 x 15 x 8 = 3. gms
	1375 ♀	vag cl. pel. nat. preg R CR = 6 mm	83 x 35 x 10 x 15 x 8 = 4. gms
	1376 ♀	vag op., pel op. preg R CR = 5 mm	93 x 36 x 8 x 18 x 5 = 11. gms
	1377 ♀	vag op., pel op.	94 x 35 x 9 x 18 x 5 = 11. gms
	1378 ♀	vag op., pel op. preg, R, CR = 12 mm	100 x 40 x 9 x 19 x 7 = 12 gms.
	1379 ♀	vag cl, pel cl, preg R swell = 5 mm	88 x 37 x 10 x 15 x 7 = 6. gms
15 May	1380 ♀	vag cl, pel ~~open~~ cl, preg R, CR = ~~13~~ 14 mm	83 x 34 x 10 x 15 x 8 = 5. gms
	1381 ♀	vag cl, pel nat., preg R, L CR = 13 mm	88 x 37 x 10 x 15 x 8 = 6. gms
	1382 ♀	vag cl, pel cl preg R CR = 13 mm	88 x 37 x 10 x 15 x 8 = 7. gms
	1383 ♀	vag cl, pel nat.	83 x 34 x 10 x 15 x 8 = 5. gms
	1384 ♀	vag op pel nat. preg R swell = 7 mm	82 x 34 x 9 x 14 x 8 = 4. gms
	1385 ♀	vag cl, pel cl	84 x 33 x 10 x 15 x 8 = 5. gms
	1386 ♀	vag cl, pel nat., preg R CR = 10	84 x 36 x 10 x 15 x 8 = 5. gms
	1387 ♀	vag cl, pel nat. preg CR = 19	84 x 36 x 9 x 14 x 9 = 5. gms
	1388 ♀	vag cl, pel nat., preg R swell = 7 mm	84 x 36 x 11 x 15 x 8 = 7. gms
	1389 ♀	vag op., pel nat., preg CR = 13 mm	84 x 35 x 10 x 15 x 8 = 5. gms
	1390 ♀	vag op., pel nat. preg, R CR = 10 mm	85 x 36 x 10 x 15 x 8 = 6. gms preserved in formalin
—	1391 ♀	vag op., pel cl. preg ER, swell = 8 mm	83 x 37 x 10 x 15 x 7 = 5. gms preserved in formalin
	1392 ♀	vag cl, pel nat. preg, CR = 11 mm	87 x 37 x 10 x 15 x 8 = 5. gms preserved in formalin
	1393 ♀	vag op., pel op (in process of aborting fetus) CR = 13 mm	85 x 34 x 10 x 15 x 8 = 5. gms preserved in formalin
	1394 ♀	vag cl, pel nat. preg CR = 13 mm	85 x 36 x 10 x 15 x 8 = 5 gms preserved in formalin
	1395 ♀		83 x 37 x 10 x 15 x 8 = 5. gms

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Catalogue

Red Barn, National Seashore headquarters, 1 mi W. Olema, Marin Co. Calif.

15 May	1396 ♀	vag cl, pel cl preg CR = 9mm	preserved in formalin 83 x 34 x 10 x 15 x 8 = 5. gms
	1397 ♀	vag cl, pel not. preg R swell = 7mm	preserved in formalin 83 x 34 x 10 x 14 x 7 = 5. gms
	1398 ♀	vag cl, pel cl. preg CR = 10 mm	preserved in formalin 81 x 34 x 10 x 14 x 8 = 5. gms
	1399 ♀	vag cl, pel not. preg CR = 11 mm	preserved in formalin 87 x 37 x 10 x 15 x 8 = 6. gms
	1400 ♀	vag cl, pel not. preg CR = 10 mm	preserved in formalin 86 x 36 x 10 x 15 x 8 = 5. gms
	1401 ♀	vag cl, pel not. preg CR = 12 mm	preserved in formalin 87 x 37 x 10 x [13+] x 7 = 6. gms
	1402 ♀	vag cl, pel not. preg CR = 11 mm	preserved in formalin 86 x 36 x 10 x 16 x 9 = 5. gms

Muddy Hollow National Seashore Marin Co. Calif. +200 ft

	1403 ♀	vag cl, pel cl. preg CR = 10 mm	preserved in formalin 86 x 36 x 10 x 15 x 8 = 5. gms

Red Barn, National Seashore headquarters, 1 mi W. Olema, Marin Co. Calif.

			preserved in formalin
15 May	1403 ♀	vag cl, pel cl " "	[70+] x [22+] x 10 x 14 x 8
	1404 ♀	vag cl, pel not. " "	preserved in formalin 81 x 34 x 9 x 14 x 8
Coll. 1 May killed 2 May	1405	Tadarida	Tissue only
	1406	Antrozous	Tissue only

Fire Station, National Seashore headquarters, 1 mi. W. Olema, Marin Co. Calif

	1407	Eptesicus	Tissue only

Chalone Creek at E edge Pinnacle National Monument, Monterey Co, Calif.

	1408 ♂ T-2 mm	Sorex ornatus	Tissues & Chromosomes 100 x 38 x 13 x 8 = 3.9 gms

Olema, Marin Co, Calif.

			preserved in fluid	~~30~~
30 May	1409 ♂	Peromyscus maniculatus	55 x 19 x 11 x 15.	3.0 gms
	1410 ♂		59 x 20 x 11 x 16 " " fluid	3.0 g
	1411 ♂		56 x 19 x 11 x 16 " " fluid	3.1 g
	1415 ♂		56 x 19 x 11 x 16	2.9 gms

Myers Pond 1974

Catalogue

May 30, 1974

Olema Marin Co, Calif.

30 May	1416 ♂	preserved in fluid 18 X 20 X 10 X 17 = 2.7 gms
	1417 ♂	" " 62 X 21 X 11 X 17 = 3.8
	1418	" " 60 X 22 X 10 X 16 = 3.0
	1419	" " 55 X 23 X 9 X 16 = 2.7
	1420	" " 65 X 23 X 11 X 19 = 3.9
	1421	" " 60 X 25 X 11 X 19 = 3.7
	1422	" " 60 X 22 X 11 X 17 = 2.7
	1423	" " 55 X 21 X 10 X 15 = 2.6
	1424	" " 64 X 24 X 11 X 19 = 4.1
	1425	" " 70 X 26 X 11 X 22 = 4.8
	1426	" " 65 X 25 X 12 X 18 = 4.0
	1427	" " 70 X 26 X 12 X 20 = 4.6
	1428	" " 74 X 30 X 12 X 25 = 5.3
	1429	" " 75 X 29 X 10 X 22 = 5.5
	1430	" " 69 X 29 X 10 X 21 = 4.8
	1431	" " 72 X 29 X 10 X 24 = 5.1
	1432	" " 78 X 31 X 13 X 26 = 5.9
	1433 ♀ Preg. CR=24	102 X 49 X 12 X 36 X 16 = 13.8
	1434 ♀ Lact.	103 X 47 X 11 X 35 X 16 = 11.7
	1435 ♀ CR=27	110 X 50 X 10 X 34 X 14 = 14.6
	1436 ♀ ~~Lact.~~	105 X 48 X 11 X 34 X 15 = 10.2
	1437 ♀ CR=25	108 X 47 X 11 X 35 X 15 = 14.0
	1438 ♀ Lact.	106 X 47 X 11 X 37 X 16 = 12.6
	1439 Preg. CR=26	102 X 46 X 11 X 36 X 14 = 12.9
	1440 Lact.	103 X 48 X 11 X 34 X 16 = 11.3
	1441 Preg. CR=23	106 X 50 X 12 X 34 X 15 = 13.2
	1442 ~~Lact.~~ ♀	105 X 46 X 12 X 36 X 14 = 11.7

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Catalogue

Olema, Marin Co. Calif

30 May	1443 ♀	Lact. Pleather	102X50X11X34X15 = 11.2 gms
	1444 ♀	Preg CR=27	107X46X11X34X14 = 14.6
	1445	Lact.	106X48X11X36X15 = 10.7
	1446 ♀	Preg CR=21	103X45X12X34X16 = 13.2
	1447 ♀	Lact.	101X47X12X36X16 = 13.0
	1448 ♀	Lact.	106X49X11X34X16 = 11.3
	1449 ♀	Preg. CR=22	108X48X11X36X16 = 12.5
	1450 ♀	Preg.	105X47X11X36X15 = 15.3
	1451 ♀	Lact. CR=30	106X47X11X36X16 = 12.0
	1452 ♀	Preg. CR=21	105X46X11X34X14 = 13.4
	1453 ♀	Preg. CR=23	104X46X12X34X16 = 13.8
	1454 ♀	Lact.	105X46X11X34X15 = 11.7
	1455 ♀	Preg. CR=25	102X44X11X34X15 = 14.2
	1456 ♀	Preg. CR=16	107X46X12X33X16 = 12.4
	1457 ♀	CR=23	106X50X12X35X15 = 15.1
	1458 ♀		109X50X12X35X15 = 10.1
	1459 ♀	Lact.	110X52X11X46X16 = 13.1
	1460 ♀	Lact.	107X49X12X36X15 = 11.7
	1461 ♀	CR=24	105X48X11X35X15 = 12.6
	1462 ♀	Preg CR=31	Twins CR=23 CR=23 110X47X11X35X14 = 16.4
	1463 ♀	Lact.	104X49X11X33X14 = 11.1
	1464 ♀	Lact.	100X47X12X35X16 = 11.1
	1465 ♀	Lact.	108X47X11X34X13 = 11.9
	1466 ♀	Preg. CR=22	106X46X10X34X15 = 12.8
	1467 ♀	Lact.	103X47X12X36X16 = 11.7
	1468 ♀	Preg. CR=25	105X50X11X36X16 = 13.4
	1469 ♀	Preg. CR=27	102X45X11X35X15 = 14.3

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Catalogue

Olema Marin Co. Calif

30 May	1470 ♀ Preg. CR=22	107 X 46 X 11 X 34 X 15 = 13.9 gms
	1471 ♀ Preg. CR=27	101 X 54 X 12 X 35 X 15 = 15.2
	1472 ♀ preg. CR=25	110 X 52 X 11 X 36 X 14 = 15.3
	1473 ♀ Preg. CR=26	110 X 50 X 12 X 35 X 16 = 15.6
	1474 ♀ Preg. CR=26	100 X 42 X 11 X 34 X 14 = 13.2
	1475 ♀ Lact.	106 X 53 X 12 X 36 X 15 = 12.0
—	1476 ♀ preg CR=19	Tissue & skeleton 107 X 50 X 12 X 37 X 16 = 11.3
	1477 ♀ Lact.	Tissue & skeleton 106 X 49 X 13 X 37 X 16 = 11.15
	1478 ♀ preg CR=22	Tissue & skeleton 108 X 51 X 12 X 36 X 16 = 12.75
	1479 ♀ preg CR=22	Tissue & skeleton 111 X 47 X 11 X 37 X 17 = 13.15
	1480 ♀ Lact.	Tissue & skeleton 110 X 48 X 12 X 36 X 16 = 10.7
	1481 ♀ preg CR=23	Tissue & skeleton 108 X 50 X 10 X 36 X 14 = 11.6
	1482 ♀ preg CR=26	Tissue & skeleton 107 X 51 X 11 X 37 X 15 = 13.3
	1483 ♀	Tissue & skeleton 108 X 49 X 12 X 38 X 17 = 9.95
	1484 ♀	Tissue & skeleton 106 X 48 X 11 X 37 X 15 = 10.75
	1485 ♀ ~~talda = 8 X 5 sneiad = 3~~	Tissue & skeleton 108 X 54 X 12 X 36 X 16 = 8.7
	1486 ♀ preg CR=22	Tissue & skeleton 107 X 46 X 12 X 37 X 16 = 12.8
	1487 ♀ preg CR=24	Tissue & skeleton 110 X 51 X 11 X 38 X 17 = 12.9
	1488 ♀	Tissue & skeleton 107 X 48 X 13 X 37 X 17 = 10.25
	1489 ♀	preg. CR=25 Tissue & skeleton 107 X 51 X 13 X 37 X 14 = 12.85
	1490 ♀	Tissue & skeleton 104 X 48 X 10 X 37 X 16 = 9.35
	1491 ♀ preg CR=17	Tissue & skeleton 107 X 49 X 13 X 37 X 16 = 11.6
	1492 ♀ Lact.	Tissue & skeleton 104 X 45 X 11 X 34 X 15 = 9.75
	1493 ♀ Lact.	Tissue & skeleton 104 X 45 X 11 X 37 X 16 = 9.6
	1494 ♀ Lact.	Tissue & skeleton 106 X 48 X 13 X 35 X 16 = 9.75
	1495 ♀ Lact.	Tissue & skeleton 106 X 48 X 11 X 36 X 16 = 10.55
	1496 ♀	Tissue & skeleton 110 X 50 X 12 X 37 X 16 = 10.2

(Yang 1364 1365 1366)

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Catalogue

Olema, Marin Co., Calif

			Skeletal + tissue	Yong
30 May	1497 ♀	Post.	108×50×11×37×16 = 11.25	1325
	1498 ♀	Post	skeletal + tissue 110×47×13×36×15 = 10.9	1326
	1499 ♀	preg CR-21	skeletal + tissue 108×47×11×37×16 = 13.2	
	1500 ♀	Post	skeletal + tissue 110×49×11×39×16 10.4	
	1501 ♂	testes 8×5 SV = 3.	skeletal + tissue 102×47×11×36×15 8.55	
	1502 ♀	preg CR = 22	skeleton + tissue 111×52×12×37×17 = 12.25	
	1503 ♀	Post.	skeletal + tissue 104×46×11×37×16 = 9.95	
	1504 ♀	preg CR = 21	skeletal + tissue 108×47×13×36×15 = 11.8	
	1505 ♀	Post	skeletal + tissue 107×46×11×37×16 = 10.6	1333
	1506 ♀	Post.	skeletal ~~+ tissue~~ 102×46×11×36×15 = 10.9	
	1507 ♀	Post	skeletal ~~+ tissue~~ 107×52×13×37×17 = 11.3	

Red Barn, National Seashore headquarters, 1 mi W. Olema, Marin Co., Calif.

1508 ♀	preg CR = 13	skeletal + Tissue 90×36×9×19×12	= 6.561334
1509	SWEL. = 4 (casual?)	skeletal + Tissue 93×36×10×19×11	= 6.05 1335
1510 ♀	preg CR = 15	skeletal + Tissue 91×35×9×18×11	= 6.8 1336

Olema, Marin Co., Calif

1511	Fluid preserved	= 4.0 gms
1512	"	= 3.3
1513	"	= 4.9
1514	"	= 2.6
1515	"	= 3.1
1516	"	= 3.1
1517	"	= 5.9
1518	"	= 5.1
1519	"	= 3.2
1520	"	= 4.7

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Catalogue

Olema, Marin Co., Calif

Fluid preserved
= 3.4 gm

30 May 1521

Fairfax, Marin Co., Calif

1522

Red Barn, National Seashore Headquarters, 1 mi W Olema, Marin Co. Calif.

1523 ♀ vag cl, cat cf, preg nt. CR=11mm 84×37×9×15×8=5g

1524 ♀ vag cl, pel. not. preg CR=11 83×34×9×14×8=4g

1525 ♀ vag cl. pel not. preg CR=13 86×36×10×14×7=5g

1526 ♀ vag cl pel not. 86×34×10×15×8=4g

1527 ♀ vag cl. pel not. preg CR=11 84×35×10×14×8=4g

1528 ♀ vag cl. pel. not. preg CR=8 86×38×10×15×8=5g

1529 ♀ vag cl. pel. not. resorbing? 85×35×10×15×8=4g

1530 ♀ vag cl. pel. not. preg CR=9 84×35×10×15×8=4g

1531 ♀ vag cl. pel not. preg CR=13 85×35×10×14×8=4g

1532 ♀ vag op pel op preg CR=14 87×38×10×14×8=5g

1533 ♀ vag cl pel not. 85×35×10×15×8=5g

1534 ♀ vag cl. pel op. preg CR=14 83×35×10×15×8=4g

1535 ♀ vag cl. pel. cl. 81×33×10×15×9=5g

1536 ♀ vag cl pel op preg CR=14 80×33×10×15×8=3g

1537 ♀ 84×35×10×[13]×8=5g

Red Barn, 1 mi W. Olema National Seashore hdqtrs Marin Co Calif

14 June 1538 ♀ vag cl, pel op preg CR=15mm

1539 ♀ vag cl, pel not. lac

1540 ♀ vag cl pel not. lac

1541 ♀ vag op pel op preg CR=22

1542 ♀ vag cl pel not. cl. swollen lights

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Catalogue

Red Barn, ~~+~~ National Seashore Ledge, Inverness, Marin Co. Calif.

14 June	1543	♀	vag'd pel not ut. ovallenal.	+ Tissue
	1544	♀	vag d, pel not lac	+ Tissue
	1545	♀	vag d, pel op. preg CR=17	+ Tissue
	1546	♂	vag d, pel not.	+ Tissue
	1547	♀	vag d pel not preg CR=17	+ Tissue
	1548	♀	vag op pel op. preg CR=17	+ Tissue
	1549	♀	vag d, pel op., lac	+ Tissue
	1550	♀	vag d, pel op., lac	+ Tissue
	1551	♀	vag d, pel op preg CR=20	+ Tissue
	1552	♀	vag d, pel op preg CR=19	+ Tissue
	1553	♂	vag d, pel not preg CR=13	+ Tissue
	1554	♀	vag d, pel not.	+ Tissue
	1555	♀	vag d, pel op., ut. sl. swollen	+ Tissue
	1556	♀	vag d, pel not lac	+ Tissue
	1557	♀	vag d, pel not.	+ Tissue
	1558	♀	vag d, pel not.	+ Tissue
	1559	♀	vag d, pel op.	+ Tissue
	1560	♀	vag d, pel not, lac	+ Tissue
	1561	♀	vag d, pel not., lac	+ Tissue
	1562	♂	abd T=7x4 SU=4	+ Tissue
	1563	♀	vag vein, pel notched preg CR=15	124 x 46 x 15 x 31 x 16 = 19.3 gm.
3 July	1564	♀	vag d, pel not. preg CR=15	83 x 35 x 10 x 15 x 8
	1565	♀	vag d, pel d	84 x 39 x 10 x 15 x 8
	1566	♀	vag d pel not. lac.	87 x 36 x 10 x 15 x 8
	1567	♀	vag d pel op lac.	90 x 38 x 10 x [13+] x 8
	1568	♀	vag d pel d lac	83 x 35 x 9 x 15 x 8

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Catalog #4

Red Barn, National Seashore hdqtrs, 1 mi.
W. Olema, Marin Co., Calif

3 July

1569	♀ vag cl, pel not.	83 x 34 x 9 x 15 x 8
1570	♀ vag cl. pel not. lac	85 x 35 x 10 x 15 x 8
1571	♀ vag cl pel not. lac.	~~85~~ 83 x 35 x 10 x 15 x 8
1572	♀ vag cl pel op. lac.	84 x 37 x 10 x 15 x 8
1573	♀ vag cl, pel not.	81 x 31 x 9 x 14 x 9
1574	♀ vag cl, pel not.	84 x 34 x 10 x 15 x 8
1575	♀ vag cl pel op. lac	86 x ~~36~~ 36x10 x 15 x 8
1576	♀ vag cl pel not. lac.	86 x 39 x 10 x 15 x 8
1577	♀ vag cl pel op. lac	89 x 38 x 9 x 15 x 9
1578	♀ vag cl pel cl lac	84 x 35 x 10 x 15 x 9

National seashore hdqtrs, 1 mi. W. Olema,
Marin Co. Calif

T = 4mm SU = 1.5mm

18 July

1579	♂	83 x 35 x 9 x 15 x 8

~~Marin~~ Muddy Hollow, National Seashore, ± 200 ft,
Marin Co. Calif

1580	♀ vag cl, pel op., lac	84 x 34 x 9 x 14 x 8
1581	♀ vag cl, pel op., lac	84 x 35 x 10 x 15 x 8

~~1582~~ Red Barn, National Seashore hdqtrs, 1 mi.
W Olema, Marin Co. Calif

1582	♀ vag. cl., ~~pel.~~ not., nipples ent., not lac.	89 x 38 x 10 x 14 x 7
1583	♀ vag cl, pel. not., lac	82 x 36, 9 x 15 x 7
1584	♀ vag cl, pel. not., lac	84 x 33 x 10 x 15 x 8
1585	♀ vag cl, pel. not., lac	83 x 34 x 10 x 14 x 8
1586	♀ vag cl, pel not., nipples ent, not lac	88 x 39 x 9 x 15 x 8
1587	♀ vag cl, pel cl., nipple ent., not lac	87 x 37 x 10 x 15 x 8
1588	♀ vag cl, pel op. nipples medium, not lac	82 x 35 x 10 x 15 x 8

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Catalogue

Red Barn, National Seashore bdgs, 1 mi. W Olema Marin Co. Calif

18 July	1589 ♀	vag d, pel not.; nipples medium not lac	85 x 36 x 10 x 15 x 8
	1590 ♀	vag d, pel d, lac	82 x 34 x 8 x 14 x 7
	1591 ♀	vag d, pel not, lac	84 x 35 x 10 x 15 x 8
	1592 ♀		90 x 38 x 10 x 15 x 7
	1593 ♀	vag d, pel not. lac	83 x 34 x 10 x 15 x 8

1 mi. SW Vacaville Solano Co. Calif.

30 July	1594 ♂	scrotal T = 12 mm, SV = 3 mm, tubules not vis. fat!	skeleton + tissue 121 x 49 x 13 x 18 x 9 = 15.2g

Red Barn, National Seashore bdgs, 1 mi. W. Olema, Marin Co. Calif.

8 Aug	1595 ♂	T = 7 SV = 2 min ♯	118 x 46 x 13 x 30 x 17 = 15.7g
	1596 ♂	T = 8 SV = 3 mm; pel open, nipples med., vag d	112 x 4 x 13 x 31 x 15 = 20.3g
	1597 ♀	pel open, vag d, lac.	80 x 34 x 9 x 15 x 8 = 4.7g
	1598 ♀	T = 8 mm SV = 3 mm	80 x 32 x 9 x 14 x 9 = 4.3g
	1599 ♂	T = 7 mm SV = 2 mm	115 x 42 x 14 x 29 x 16 = 17.3g
	1600 ♂	T = 6 mm SV = 2 mm	121 x 43 x 13 x 31 x 16 = 20.3g
	1601 ♂	T = 7 mm SV = 4 mm	119 x 43 x 13 x 30 x 14 = 20.6g
	1602 ♂	phalanges unfused T = 2 mm SV = 1 mm	119 x 42 x 14 x 32 x 15 = 19.0gm
	1603 ♀	vag d, pel not., nipples med.	70 x 29 x 7 x 11 x 8 = 2.8 gms
	1604 ♀	vag d, pel d, nipples tiny, phalanges not fused	83 x 33 x 10 x 15 x 7 = 4 gms
	1605 ♀	vag d, pel d, nipples tiny, phalanges not fused	79 x 34 x 10 x 15 x 7 = 3 gms
	1606 ♀		73 x 31 x 9 x 15 x 8 = 2.5 gms
5 Sept	1607 ♂	T = 4 mm, SV = 1 mm	76 x 34 x 9 x 14 x 8
	1608 ♂	T = 6 mm SV = 2 mm	86 x 35 x 10 x 19 x 11

Muddy Hollow National Seashore, ±200 ft, Marin Co, Calif.

	1609 ♀	vag d, pel not, lac (nursing track)	83 x 36 x 9 x 14 x 7
	1610 ♀	vag d, pel not,	79 x 33 x 9 x 15 x 7

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Catalogue

Muddy Hollow National Seashore Marin Co. Calif.

& 5 Sept.	1611 ♀	vagc pel not (act but hair grow back) T=4 SU=2	84×36×9×15×8
	1612 ♂		80×33×10×15×8
	1613 ♀	vagc, pel not	82×36×10×15×8
	1614 ♀	vagc, pel not.	84×36×10×15×7
	1615 ♀	vagc pel not.	73×36×9×15×8
12 Oct	1616 ♂	T=3, SU=1	75×33×9×14×8
	1617 ♀	pel notched	78×32×9×14×7
	1618 ♂	T=3, SU=4	75×33×9×14×9
	1619 ♀	pel notched	86×34×10×15×8
	1620 ♀	pel notched	83×34×9×14×7
	1621 ♀	pel. notched	82×34×9×15×8

Red Barn National Seashore hdqtrs, 1 mi W Olema Marin Co. Calif.

	1622 ♂	T=4.5, SU=1	85×36×10×19×10

locality unknown

	1623 ♂	T=30, abd.	brought in by Nate Cohen skeleton + Tissue 746×342×90×40=5300gm

Myers, P.

1974

Journal

Ecuador, Calif.

Myers
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1974

Journal

Academy Bay, Isla Santa Cruz, Galapagos Islands, Ecuador.

18 Jan. arrived at Baltra around 3 PM. met by Beagle III, which took us to academy bay. arrived after dark 8 PM. mostly cloudy, temp in 80's. flying out we saw mostly clear skies from the coast of Ecuador until ± 50 mi. from the islands. Then mostly to completely cloudy. Yet here it has repeatedly been very dry, with no serious rains yet this year.

Pattar & I set out 20 large collapsible Sherman's in the weeds near buildings in nearly thorn scrub. Traps went out around 10 PM. Walked inland, ~~up~~ following a path (about ½ mi. up a steep hill to a small, locked concrete (an old seismograph station) building, looking for geckos. It was on this hill-that we had our best success last trip, & it was the same this year. We took 4, ~~of~~, one on each wall (~15'×10'). Picked up 4 more on the lava, & saw 6 others which were either too small & too quick. 14 total, 8 caught. It seemed better later in the evening. We saw very little before 10, but from 10-11 PM they were fairly common on the rocks which had been known earlier in the evening. Or perhaps less alert. This is not as it was 2 years ago, when the best time was right after sunset.

19 Jan one rat, no Mus in the traps. But over half

Myers
phil
1974

Journal

Academy bay, Isla Santa Cruz, Galapagos Is. Ecuador

19 Jan had been spring, probably by rat.

Clear & hot. Spent the afternoon setting up & running mist net for Nancy Jo. We put up 5 nets, all among the tree cactuses of the thick vegetation at the base of the cliff beyond the turtle pens but before the ex seismograph station. The most productive net was set high, with the top 10' off of the ground. But all net produced at least a few birds. Nancy is to chromosome & extract tissues from the finches we caught & kept 24, released a few which someone had banded, & released 6 or 7 yellow warblers. Nets were left open over night. Janet Dock & I checked them once about 9 PM; no cats, but they don't set well for bats. Walking out to the nets & back (3½ hr) we caught a mocker & gecko. I might went out with the other girls but only got one.

20 Jan up at 5 AM to work the nets. It was slow going until well after light, around ~~6:00~~ 6:30, but after that we were more or less continuously occupied until 7:30 or 8 AM. Total catch was around 40-50 bird, including the few that wandered in late this morning. Nets were folded up by noon. Geospiza fortis & G. fuliginosa were the most common spp. followed by G. scandens, then by Certhidea. The

Journal

20 Jan. Academy bay, Isla Santa Cruz, Galapagos Is., Ecuador

G. scandens called cactus finches were seen frequently feeding ~~on~~ the ~~pollen~~ cactus flowers & their faces were usually smeared with pollen. Some of the G. fortis had beaks full of what appeared to be cactus pulp.

The finches are generally abundant. We certainly saw far more than we caught, even right around the net. They move in mixed flocks, tho any area is seldom completely without finches. The yellow warbler, (+ Vermilion flycatcher) seem to move with them, tho the mockingbirds seem to keep apart. All birds were surprisingly active during late morning & mid afternoon. We caught finches at all times of day. The early morning period was most productive, but the difference between the early morning catch & that of other times of day was not as great as it has been in either mainland temperate or tropical areas I've netted — a factor of 2 to 3 at most.

The finches respond well to squeaking & "pishing" — almost to the point of landing on the observer. The warblers & flycatchers also are susceptible. The best strategy for catching birds however was to find one that squawked a lot (some individual of either sex & of any sp seem to be more noisy than others of the same sex & sp) & hold

Academy bay, Isla Santa Cruz, Galapagos Is. Ecuador

20 Jan it near the net. Large #s of finches (upto 200 or more) usually flew in & often several were caught.

Some seemed to have old brood patches. All shed feathers very easily. Several Darwin same individual carrying twigs, as if to build a nest. & I saw several juveniles (not yet full sized & very clumsy fliers) near the lab bldng.

There are numerous marine iguanas on the rocks at the base of the living hall. I watched one large (~~#~~ 25"+) ♂ walk up to a flower, apparently eat some insect off of it (I couldn't see the insect, but he took the flower in his mouth, released it all, then made swallowing movements & licked his lips), then immediately chase a ♀ & copulate with her (the grabbing the nape of her neck with his mouth as he mounted her).

Pattas set the Sherman last night (mostly around bldng), plus 26 collapsible tomahawks. 9 rat & 1 mouse. The tomahawks are much more effective.

Land iguana wandering around the lab bldings in PM - said to be an introduced individual from P Iguana island.

Around the station it's very dry, tho there are usually rain clouds hanging over the hills. Vegetation has a brownish aspect than before. The station officials are a little worried

Wyer
Phil
1974

Academy Bay, Isla Santa Cruz, Galapagos Islands, Ecuador

20 Jan about their fresh water supply; apparently
drinking season is late in starting. Yet the
rats show evidence of recent breeding, the ♂'s
have descended testes, & all have at least
some fat.

Most rats also had large tapeworm cysts
in their livers — some up to 3 or 4 (one in
each lobe), tapeworm 3" long.

21 Jan left Academy bay for Barrington - 2 hr cruise.

Barrington Bay, Isla Barrington, Galapagos, Ecuador
partly cloudy, daytime temp in mid 80's. Pleasant
tho somewhat humid. This island has a particularly dry
dry appearance. The Scutea zone along the shore is
gone & the tree cactuses (which start 10-20 ft above
sea level around the bay) are green but scrubby.
Plants are either brownish or totally leafless.
Put out 2 bird nets in the Scutea zone & 2 among the
tree cactuses. Saw no finches elsewhere & few
around the nets. There are however, lots of mockers &
they are remarkably fearless & curious. Also yellow
warblers. Put out 26 tomahawk traps & 75 Sherman
(large, collapsible type). Most traps went into the
Scutea zone where we had had best luck last
time. Put Dran - few more of the same.

Gecko hunting after dark was as successful as
usual 2 teams. Janet & I got 9 in about an
hour. These are smaller than average & most

Nuyts Plid 1974

Barrington Bay, Isla Barrington, Galapagos, Ecuador

21 Jan came from the sand or dirt at the bases of rocks rather than from the rock themselves. We picked them up both near the high tide line & inland a short distance, the most came from closer to the H_2O. We saw numerous scorpions, especially on the sand, & centipeds. The beach was literally covered with a small beetle (Phaleria, we found out later) & its larva. Almost any square inch of surface sand would have produced a couple. But the were concentrated on the sea lion feces. 4 or 5 of feces would have hundred. Flies were numerous also - so bad that in places we had to remove our headlights & hold them away from our faces.

The cause of all the insect life is undoubtedly the sea lion colony. We saw perhaps 50 during the day they either basked on the beaches or were off in the water, but at night they moved back from the shoreline into the rocks & bushes, where we were trying to run traps & search for geckos. They seemed more irritable than by day, also, making walking at night a hazardous operation. Those of us that tried to sleep on the beach ~~found themselves~~ were actually chased off

Myers
April
1974

Journal

Barrington Bay, I. Isla Barrington, Galapagos, Ecuador

21 Jan Lyman Cate & I had to sleep further inland. The sea lions have evidently been present in large #s for a considerable amount of time, judging from the sluiceways the rocks they drag themselves over. They are very persistent in this often going 20 or 30 feet or more from the water's edge & climbing to heights of at least 10 or 15 feet over rocks. They strongly prefer certain rocks, or at least certain rocks are well worn & shiny while most are not. Probably seen 50 or 60 individuals.

There were heaps of numerous dead sea lions on the beach, & one fresh carcass. I picked up several skulls of young animals, all broken neatly across the rostrum.

We saw only one rat after dark. Others have reported them as being a serious nuisance to campers due to their abundance & lack of fear. We saw none of this. Talked to a unsegnum graduate student named Clark, working on Rattus as Duncan, but who had done some censusing of the Barrington oryzomys. Based on live trapping to exhaustion, a grid plus trapping a transect thru various habitats, to get an idea of habitat preferences, they estimate the total population to be on the order of 200,000 - 500,000 rats. They think that currently the population is

Wiggs
Phil
1974

Journal 4

Barrington Bay, Isla Barrington, Galapagos, Ecuador

21 Jan low, probably due to lack of rain. I wonder if actualy the rats don't move in swarms from one food source to another. Our trapping results are consistent with this for a best success was up to ravine away from where we caught most rats last time. also we caught 15 or so rats ~~that~~ that had been earlagged by Clark, tho the nearest part of his grid was ~~about~~ about 100 m away. He saw the same thing - movements overnight of up to 200 meter. With such high densities, large home ranges are impossible if the rats are at all territorial.

22 Jan So we caught 39 rats in our 101 traps not nearly as many as last time. Due to the different area trapped & the time lapse since Clark tagged the ones he caught (at least a couple of months) one can hardly use a fiducial index. Yet it should be noted that 15 of the 39 were ear tagged, & that knowledge of the distance & the relative & difference in trapping locality & the relative ~~success~~ success decrease & in fraction tagged should tend to make a fiducial index too large rather than too small - suggesting that perhaps the rat pop. is not so big after all. But as long as we have no idea what part of area we're sampling this is purely

Wolfe
Phil
1974

Galapagos 9

Barrington Bay, Isla Barrington, Galapagos, Ecuador
22 Jan speculation

Finch netting was generally poor tho we caught lots of warblers & especially mockingbirds. Species caught were Geospiza scandens (most common, & the we could only catch ♀'s! (♂'s were seen often)), G. fuliginosa, G. fortis, & Certhidea in decreasing order of abundance. We saw one hawk, banded by DeVries (#19) At perch a Crunch drove the pair of rat traps. The hawk all immediately froze, despite the fact that we were working only inches away from them & they had been frantically active. They stayed "frozen" until the hawk left, well photographed & very frustrated, 45 minute late. Most of the time it perched on a trap (with a rat in it) while I was set a few feet to the side. I photographed it from a distance of less than 3 feet...

There were lots of Tropidurus & they were easy to catch. There seemed to be a disproportionately large # of ♂'s, & at least of ♀'s w/out the typical red on the throat. I saw a single land iguana, which I photographed. It was small, 2 1/2', & very skittish. All other iguanas were presumed to be small #'s. One green

Nerfy Plus 1974

Journal

Barrington Bay, Isla Barrington, Galapagos, Ecuador

22 Jan. see turtle was seen, & bright painted dry tracks leading up the beach & a place where eggs had been buried. The ♀ drag their tails on the sand, leaving a characteristic trail ~~~~.

We saw many snakes, ~~[illegible]~~ 2 types — one with stripes, one with blotches. Most were small, >24", but one I saw exceeded 30". They were particularly common at night, when we saw 5 or 6, but by night uncovered during the day, while basking upon old, rotting cactus log, & I saw a snake beside a rock. One I saw at night made the mistake of crawling under a sea lion as it reared up to bellow at us. The sea lion came down, bellowed again, & went right back up. The snake made off rapidly.

Academy Bay, Isla Santa Cruz, Galapagos Ecuador arrived late afternoon. Hurriedly put out 20 tomahawks. Rhy 10 were also placed where vegetation ends, just above where the intertidal zone.

23 Jan 5 rats, 1 caught. They seem to like the water. Spent the day in the lab & myself sorting the equipment which arrived on the Calicuchima while we were on Barrington

Myers
Phil
1974

Journal

Wreck Bay, Isla San Cristobel, Galapagos, Ecuador

24 Jan 6 hour cruise, arrived 3 PM. Worked around old,
- 26 Jan abandoned canning factory. Ceiling, walls are starting to fall in & are full of holes. Weather continues warm, breezy. Rain clouds over highlands, but generally very dry.

We set out the 76 rat traps around the old factory & in the rocks just above high tide. Caught 20 rats. They are slightly fat. The ♂'s are in breeding condition. The ♀'s have open vagina but were not pregnant or lactating. One of the traps caught 2 rats.

Tropidurus are common near the shoreline. Easily caught a limit. Further inland they thinned out, & we saw none in the highlands. Geckos also were fairly common near the ocean. 2 species - Phyllodactylus darwini (large & tuberculate) & P. leei occur here. The latter seemed slightly more terrestrial, tho I saw a few individuals of each spp in trees.

We worked hard the first night (24 Jan), & collected 15 or so P. darwini but only 4 P. leei (3 crews). We stayed mostly on the rocks & by the building. Most of the P. darwini are small individuals. The second night I walked up a new road made of rock partially crushed rock & unpaved dirt that runs

Wiggers
Phil
1974

Journal

Wreck Bay, Isla San Cristobal, Galapagos, Ecuador

24-26 Jan We carried down from the highlands & every 10 a 15 steps I saw Geospiza. About 2/3 were G. fuliginosa, Certhidea. But very few caught, & few seen. Nets were in the brush & bushes and shrubs. Many of the tree ~~opuntias~~, cactus too, & predictably G. scandens is also absent.

Bruchia. On the morning of the 25th we got up at 4 A.M. & took a bus up to Progreso, a town of perhaps 1-2000 people in the highlands. Elevation about 2-3000 ft (±), but vegetation & soil are remarkably different. The soil is distinctly basaltic because there is sand, & it is deep. By the ocean there is very little soil, only rocks & sand. Soil is dun color, friable. Trees are almost all either guava or citrus. Not high (15-20'), but dense. There are a few very large trees, perhaps kapok or fig. Coffee plantations, banana, papaya, etc. Farms, pickers, etc. Very wet & sprinkled briefly while we were there, but most of the water probably comes from cloud condensation. Or at least the mealy containing many & every

Wages
Plut
1:14

Journal

Wreck Bay, Isla San Cristobal, Galapagos, Ecuador

24-26 Jan Cloud cover must cut evaporation drastically. Up higher it must be even wetter. We set out 6 nets, had very bad luck until Nancy & Helen tried tying crackers into one of the nets. They caught 8 birds very quickly. We saw many finches. But here they appear to move in feeding flocks. ~~In the~~ At lower elevations they may also be in flocks but they are less ~~than~~ concentrated so that other nets might catch birds at any time. Up here we'd spot finches in large #'s, but by the time we got the nets up the flock would have moved on.

There is a third sp of gecko up here, Gonatodes bauri? . It is probably recently introduced by man. Medium sized (→ 3¾), yellow head & dark gray body. Partly diurnal, too fond mostly on tree trunks. John says they are ± commensal nesters (perhaps due simply to limited # of appropriate sites) & he found a match box full of eggs. Very hard shells. Saw no tropidurus up here.

Most of us left at noon, & rode down on the back of a pickup. Nancy & Helen stayed until 5:30, caught a few more birds in nets set near the Town. (generally speaking we see more finches near human habitations. Certainly in Progreso we saw more in the schools, and (Estacion Carlos Darwin) than anywhere else. This

Ugly
Phil
1970

Journal

Wreck Bay, Isla San Cristobal, Galapagos, Ecuador

24-26 Jan despite the fact that the colonists kill them as pests.) Sp. caught at El Progreso were G. fuliginosa, Camarhynchus parvulis, & Cactospiza pallida. # - we should have also caught Platyspiza crassirostris, & Geospiza magnirostris

Very heavy seas - waves as large as icebergs near town. Note extreme difference at Wreck bay. This in contrast to ~~last time~~ 2 years ago, when there was water literally cascading down off of the hills. Most of the time then we were wading in fresh water. This time we saw absolutely no fresh water. Vegitation looks greener, too. Geckos before were concentrated on ledges & high rocks, * we got 15 in an evening this time ~~there~~ were few in other places, & we collected fary fewer ingeneral.

Cardner Bay Isla Española, Galapagos, Ecuador

26-27 Jan No rats, known from here, so we set no traps. Much sandy beach, tho there ~~are~~ is no shortage of rocky shoreline also. Vegetation very low & thorny. Back 30 m or so from the beach it is very brown & ~~is~~ largely leafless, but ~~that~~ where the sand ends there is a zone of Cryptocarpus which retains its dark leaves 20-30 feet deep or so. Also a few small (15') trees. On a sandy point we could see 2 of the tree Opuntia. But ingeneral Cardner Bay has a barren scrubby look.

Mockingbirds are the most ~~abundant~~ very tame. Back

Wyles
PhD
1974

Journal

15

26-27 Jan Gardner Bay, Isla Española, Galapagos, Ecuador

in the Cryptocarpus & scrub we started seeing finches. On the early morning hundreds came out to feed along the beach. We caught at least 50. Geospiza conirostris, G. fuliginosa & Certhidea olivacea are the most common. G. fortis is present but rare; we caught only 1. Also tyrannid flycatchers & warblers, all in light #s. Could it be that the absence of rats correlate with the high # of birds?

Found that clearing a lane thru thick brush worked well.

The Tropidurus here are very large. adults ♂, ~8". ♀s are smaller than the sig of large ♂s on San Cristobal (~5"). Abundant & easy to catch. We had over 15 in less than 30 minutes. They were present everywhere we went, in trees & on the ground. We did not go far inland, however.

The geckos are also abundant. We walked along the beach in the early eve, to catch 15, in leaf litter among rocks. When we arrived back at camp that night we found literally dozens, far from rocks, in the vegetation along the edge of the sandy beach. Apart from rats there were many small beetles in the sand (similar to those on San Cristobal & Barrington but less dense, also of other kind); perhaps they were hunting these.

Few marine iguanas, lots of sea lions. Perhaps 30-40 seen

Nagey
Phil
1974

Journal

Gardner bay, Isla Española Galapagos, Ecuador

26-27 Jan Again we find skulls with smashed rostrums. also lots of goat bones & feces, some of the bones no more than a few months old. Also the 2 or 3 trees near the shore were browsed into a shape & broken & torn branch ends were obvious.

Janet saw one snake. I saw one small centipede (4"). No scorpions. When we landed there was a 10' palm log washed upon the beach. Must have come from Chatham, a more likely Ecuador. School of rays in the surf - at least six.

Weather continues breezy, partly cloudy. Day temps are in 80's, night in 60's. With the wind it can be fairly chilly. No mosquitos of note on Española, tho there certainly were on Santa Cruz, Barrington, & Black bay.

2 short eared owls followed us & walked along the beach after dark. Calling, diving at us - acted as if they had a yearly nest.

Black Beach Isla Floreana, Galapagos, Ecuador

8 hours cruise arrived late afternoon. Lots of satellite islands - a Gardner, Enderby, Corona del Diablo, etc. all sizes & distances from Isla Floreana. Good fishing, the crew says, despite our lack of success at trolling (one bonito which fell off halfway to the ship.) Many

Hugy
Phil
1974

Journal

Black Beach, Isla Floreana, Islas Galapagos, Ecuador

27 Jan seabirds especially in the offshore islands. First tropic birds. weather overcast, some drizzle but no real rain. anchored at Black Beach, a small settlement (~35 people) which seem to be a center to which vegetables & fruit grown on the highlands are brought. There is a pension "Pension Wittmer" run by Germans, long time island inhabitants. High cost of living; many staples are brought in by traders & soldiers exhorbitant, rice old colony; this island was one of the first colonized.

Rocky and semi desert terrain. Low, scrubby vegetation. Lots were fenced but we saw only a few burros.

Count 76 tortoises first out, mostly along shoreline, rock fences, fences, & a few back into the scrub. But trapping - caught only 6 rats, 1 in a house, 1 along the shore, & the rest near the fences. I saw many (5 or 6) cats at night. The man I was with said they were feral & were responsible for great damages to his chickens. Perhaps this is the reason for the low # of rats.

The cats do not keep the geckos down, however. We had no trouble getting 15, mostly from the rocky fences. Iguanas were scarce, but we might get 1 or 2. Also saw a few marine iguanas.

40 or 50 sea lions on the rocks near town.

Few birds in the lowlands. No mockers.

Virgy
Plut
1974

Journal

Black Beach, Isla Floreana, Galapagos, Ecuador

27 Jan Yellow warblers are numerous. Of the finches are basically G. fuliginosa & G. Fortis. The latter was particularly common at a farm about a 20 minute walk from town, where circulas (a plum-like fruit, also not related) were being grown.

28 Jan Upat 4AM for an hours walk up into the Transition Zone & some bird netting. William, Jorge, & the cook came along to look for vegetables at the farms higher up. As we gained elevation the ~~trees~~ vegetation became less rocky & the soil deeper. Wetter, too. It was overcast most of the morning & it sprinkled for a few minutes just after noon. Saw geraea, lots of lemon, lots of cactus. A few very large, gnarled circula (which, like the guava & lemon, are introduced). On the walk up Dwight saw geckos & below lizzet, & another in midmorning underneath ~~the~~ bark clinging to the dead limb of a circula tree. ~~Most of the~~ Trees circula forest dense 20-30 feet max. high. The generally trees not more than 15 feet & DBH of a couple of inches. Very dense undergrowth especially a little higher.

Lots of trails in the forest, & one dust wallow. Probably pigs, according to Nancy. But we did find one burro skeleton off in the bushes.

Put up 8 nets. Caught many of the Galapago Mockingbirds, flycatchers, yellow warblers. Also

Hoggs
Phil
1974

Black Beach, Isla Floreana, Galapagos, Ecuador

28 Jan an adequate sample of G. fuliginosa, some G. fortis a couple Camarhynchus parvus or Platyspiza, & we saw but did not catch Certhidea. Generally poor netting. Saw a million fly catches.

Saw no Tropidurus in the highland — only near the shore. Wright said they didn't appear until after 8; unusually late for the island lizards.

Crew went out to look for lobsters for a short time (~1 hr) then pulled up 10-12 large spiny lobsters. Good fishing, too.

Tagus Cove Isla Isabela Galapagos Ecuador

29 Jan Left Floreana at midnight, about a 14 hour run to Narborough. Dropped off the Patton, the Wrights, & a lot of equipment, then 40 minutes across to Tagus. Weather continues overcast breezy. Misunderstanding w. captain - we thought we were to have more time at Tagus, probably cost us some birds. Amicable though.

Very dry as elsewhere. Trees low, very sparse. Crater lots of old lava flakes, crumbly. Up above the hill from the landing is a fresh-water lake, but water is too sulfury to be potable. Does have ducks on it though. Around part of it, right next to the water, is a 20-30 ft deep zone of Scutea. Absolutely impenetrable.

Wright
Phil
1974

Journal

Tagus Cove, Isla Isabela, Galapagos, Ecuador

21-30 Jan Along the edge of the Scalesia was the only place we caught lots last time. So it was here that I placed 50 Tomahawks. Rough going, & due to the late hour they were placed fairly close to the anchor. Caught only 6 Petrels both subspecies.

Tropidurus common, but very small most w. wounded tails, & extremely skittish & hard to capture. Large ones less than 3" long. Small ones caught a but no big ones ever seen.

Phyllodactylus also hard to come by. Walked quite a ways up the draw where we landed, caught only one at the ground. Then we learned to look for them on the trunk, & is as how we had to. Many scorpions, both on the ground & in the trees. Elsewhere we've seen them only on the ground. Could they be preying on the geckos? Strange that the first place we find lots of geckos in trees is the first place we see scorpions in trees.

A bird anchored at Tagus Cove (Wright & Janet partially obliterated the Searchers autograph. Now reads FAP HEI. But we saw the Calypso's name & the Westward - both research vessels, & both had been there more recently than we had. Why did they pick on us?

Fishing not too good where we were anchored.

Hussey
Phil
1974

Journal

Tortuga Pt, Isla Isabela, Galapagos, Ecuador

30 Jan Spent a few hours here with Janet & Nancy, while the Beagle piked up Knight & Pattison Narbrough. Sandy (black) beach, mangroves. also much newer lava. very rough, no vegetation in the lava. The mangroves are high - 30 feet, more dense. The tide was in & there was a foot or more of water covering the roots of the mangroves. Saw a few finches - including a single mangrove finch - but there was nowhere to set net. Mocking & yellow warblers common also.

Many Tropidurus, more than at Tagus (about 2-3 miles away) but tourists frequent Tagus & not here). Lizards are huge here also & many were adult. However they are similarly skittish & very difficult to catch. But we got 10.

Lots of cat droppings, one cat skeleton. 300, 400 sea lions on the beach. Penguins, cormorants. Numerous boobies, as at Tagus.

31 Jan. left around 10 P.M. arrived

Dos Hermanos, Galapagos, Ecuador

arrived around noon. went ashore on a side to look for geckos. We cruised around first for a while while the captain played with the depth finder. Beneath the sea is as precipitous as above. Depth changes of over 200 ft in a few feet

Wufus
Phil
1974

Journal

Isla Wenman, Galapagos, Ecuador

31 Jan forward motion was common. Saw lots of turtles & several sharks, including one big hammerhead.

The 4 eights, the Pattons, Janet & I climbed up to the booby colony to look for gecko. Boobies in all stages of development - from fuzzy chicks to nearly fledged youngsters. But some eggs. Red feet in the ties, blue feet on the ground. Immense mouths & crooked beaks which they do not hesitate to use if one wanders too close. Mockingbirds, yellow warbler, finches but we were collecting no birds. Nesting lava gulls with eggs. ~~Hi~~ Frigate birds & tropic birds also nesting or at least roosting in the vicinity. ~~Turtle~~

We rolled rocks for about an hour to get 15 gecko. Largest dark. We also ran across 3 or 4 centipeds. On Wenman we find them up to 6-8" long & fully ½" across the body (not counting legs. They & the gecko probably live on insects in the booby droppings, & the centipeds probably also eat gecko.

Watched an aerial acrobatics show while waiting for the Beagle II. Five were sitting on the top of a high cliff, watch the frigate birds & boobies (+others) above & below us. Boobies

Wolfe
Phil
1974

Isla Wenman, Galapagos, Ecuador

3, Jan. use their broad, webbed feet as rudders & air brakes. Frigate use their ~~wings~~ 2 halves of tail independently as rudders & in altitude control. Neat to watch.

Low trees - 8-10' -, lots of cactus on top & on the sides. Generally sparse but ~~so~~ patches of trees dense enough to make it difficult to walk thru. Very precipitous - island rises right out of the sea & some cliffs are more than 1000 ft height.

A crew did some fishing right offshore - numerous triggerfish, a shark caught (delicious), & several grouper (inc. one that they call bacalao, famous for its meat). Many sharks seen.

Left 8 PM.

Isla Punta, Galapagos, Ecuador

1 Feb - 2 Feb arrived 6:30 AM weather cartoons cool, ~~clear~~ partly cloudy. Morning fog. Dropped Nancy, Janet & 1 obs to spend 30 hrs.

Near shore, dry & barren. Fresh lava flow & an unvegetated, small cinder cone ~~a few~~ nearby. ~~The~~ looking up (~2800 ft highest point) there is a gradual increase in the amount of green then about 2/3 of the way up the veg. abruptly changes color to dark green. Looks like fern tree at the top - grassland? cactus, Prosopis ~~Bryo~~ etc. near shore.

Journal

Isla Pinta, Galapagos, Ecuador

1 Feb – 2 Feb

No ~~dead~~ dead fresh goat carcasses near shore. The some look only a few months old. Last time the shoreline was littered. The park people had contracted to capture them live & drive them to the beach, where a Panamanian boat would load them on. The boat never came, & the goats were killed & rotted in site. We thought that the carrion accounted for the fantastic fly population last time which in turn accounted for the concentration of Tropidurus along the shore. Appearing not so, for there were still flies & lizards in great quantities. (We were camped along the S shore).

The # of lizards is truly fantastic. Scarcely a m² is w/out at least one. They are on the lava rocks beneath bushes, in sand, & in trees. When the tide is down they follow the water's edge out & everywhere we went on the island there were large #'s - even in the highlands. Behaviorally strange - the ♀'s rarely (never) are aggressive, & the several may be in one rock. But the ♂'s are aggressive & territorial. Lots of posturing, threat, & actual attacks.

Near the beach we sat around & the Tropidurus came visiting us. As soon as flies started landing on us the lizards

Isla Pinta, Galapagos, Ecuador

1 Feb - 2 Feb all over our legs & clothes hawking flies. often they would leap entirely off of the ground (cross) in order to grab one, & I saw many snatch flies out of the air.

This was the first trip I'd seen it, rapidly in tires. yet in many bushes, especially leafy ones, there would be 10 or 12 lizards high up in the branches.

Few marine iguanas. Saw 4 or 5 sea lions but often there is only a small beach lizards hawking flies on sea lion backs. Fed a little fishing off of the lava using crabs for bait. Caught a 12" reddish fish, lost a much larger parrot fish. As I stood on the rocks, which were occasionally washed by the waves, a small (15") moray eel came slithering up out of the water & into a small crack (filled w/ sea water) near my feet. It darted at the crab legs I fed it.

~~At the cliff~~ We ran 2 net lines across lanes cut thru the low, thorny (& thorny!) Prosopis. Geospiza magnirostris seen but not caught until morning 2 Feb. caught 10 or so G. fuliginosa & 6 or 7 G. scandens - also 2 G. fortis, 1 or 2 G. difficilis

In the afternoon we walked up to

Journal

Isla Pinta Galapagos Ecuador

-~~Wed~~ Feb
-2 Feb

the lower edge of the dark green zone on the mountain. ~~The~~ First we passed bare rock, then cactus forest which is very sparse, a few trees per acre & no canopy, then with increasing amts of veg. ~~-~~ Near the dark green zone ferns started appearing & there were some areas of dense grass. Lots of Bursera trees also, some large. But little said anywhere - mostly lava rock of various sizes & ages, making walking difficult. Some variation in the trees higher up.

Goat feces are still visible everywhere, are great here, but most are old & whitened. Higher up we saw some fresh droppings heard goats calling, & Janet saw a fat black adult. The elimination of most of the goats has certainly made a difference in the amt of food available.

Set up 4 nets at the highest point we reached. Mockers, warblers, vermilion flycatchers, galapagos flycatcher, & finches all common. Caught G. magnirostris G. scandens G. fuliginosa, G. fortis, G. difficilis, Camarhynchus pallidus.

We caught a few birds - G. magnirostris G. scandens, & G. fuliginosa - with a hand noose. They are wary but persistence worked. They seem to become accustomed to the flash & were pecking

Meyer
plus
1974

Journal

Isla Pinta, Galapagos, Ecuador

1 Feb - 2 Feb

at them. The tree Opuntia ~~~~ have both blossoms & fruit & the finches are easiest to photo while they are on these.

Saw a short eared owl on the way down, after dark & the hawks were a constant problem in the birds nets both in the highlands & near the water. Hawks very persistent & difficult to drive off. yet they must be forced to leave the vicinity of the nets, for all bird movement ceases when they are near.

Looked for geckos on the way down, both in the high country & later along the beach. Saw lots of Tropidurus but no Phyllodactylus.

2 Feb

Isla Marchena, Galapagos, Ecuador

SW corner. arrived around 2 PM. Wrights, Pallas etc. had spent the previous night here. Caught a few finches, lots of Tropidurus but no geckos.

Trees mostly Bursera sparse. Some soil especially where the lava is old & flaky. But lots of fresh lava, which has cracks in it. Pallas said he found 2 smoking fulmarids. Looks greener here than elsewhere except for the higher elevations of other islands. The Bursera & other shrubs seem to be just leafing out.

Wrapped in Plastic 1974

Journal

Isla Marchena, Galapagos, Ecuador

2 Feb – 3 Feb

Tanet & I set up & net 5 near the beach & back up into the vegetation. Tons #s of finches tho lots of mockers, warbler, galapagos flycatcher & dove. Hawks a problem also; 2 gaping holes & a pile of dove feathers by one net. G. magnirostris, G. fortis, G. fuliginosa, Certhidea olivacea, Platyspiza crassirostris. Numerous Tropidurus & sea lions. Several sea lion skulls, smashed esp. across the rostrum. Nesting pelicans w. egg. No goat sign, tho they are supposed to be on this island.

a little rain at 4 & 11, overcast at 6. Rising hard offshore, but it never reached us. Very humid, uncomfortable.

Isla Tower, Galapagos, Ecuador

3 Feb – 4 Feb

Darwin bay. No rats or lizards known from here (except a single possibly mislabeled Tropidurus. Couple of 6 ft sharks (4 of them) right along the shore.

Trip very disappointing. Not nearly as many as 2 years ago, & they are not breeding generally (a few gulls had eggs, & there were a few Red-footed booby chicks. But few & they looked scrawny. Green herons, night herons in the sand. Lava gulls swimming in a tide pond. 2 or 3 booby sp., frigate bird, tropic bird, adult gulls, petrels, shearwaters, etc.

Wright Pl.
1974

Journal

Isla Tower, Galapagos, Ecuador

3-4 Feb - Some immatures frigate birds but no chicks. Watched the frigate chasing boobies. They seemed to orbit floating along the cliffs, until a homeward bound booby w a full crop came in. Then they'd go after it 2-3 frigates at one booby. Boobies had do not seemed to be a special call for when chased. Usually the frigates simply dive bombed or harassed the booby but once we saw one grab a booby in mid flight & seem to carry it away - with its beak hooked to the boobies vent.

6 magnificent, 6 afaith, 6 fuliginosa. Certhidea. Very low densities. One best net site was around the dense clumps of Opuntia cactus. Also saw, mocker, yellow warbler, & Galapagos flycatcher once.

Island is very dry. Almost no trees with leaves. Tower is a low island never more than 200 ft asl, so probably never catches much rain. Vegetation is low, scrubby, not very dense. Lots of Palmeria.

3 or 4 sea lions, & as many marine iguanas.

During the night we got a "garua" like rain settled in - really a drizzle. Dawned overcast & wet, continued until Santiago.

Myers
Phil
1974

Isla Isabela Galapagos Ecuador

3-4 Feb On the way between Isabela & Marchena boobies started diving at the jigs we were trolling. This has happened before, but never before have we caught one. We towed it a way but when I tried to pull it in it dropped off - thoroughly drowned.

Isla Bartolomé, Galapagos Ecuador

4-5 Feb Numerous small islands here & around Sullivan bay (Santiago) in general. Supposed to be good fishing ground, & we shared the anchorage with a lobster boat (the Villamil.)

Get in around 5 PM. Drizzling overcast cool (70's). Most of the group went ashore at Sullivan Bay. Dottie & D took 21 Tomahawks & went to nearby Bartolomé. 2 lava areas border a 100 m strip of sandy beach. One of the lava areas is soft, like compressed ash. Other area is hard & brittle apt to crumble & break when trod on. Behind beach is a 3/5 m zone of Cryptocarpus, Scutia, etc. Behind that drops down into mangroves. D set the traps off there the vegetation caught 11 rats of both subspp.

Saw a few Tropidurus, not many & most quite small tho w. adult & colors (≥"). Very skittish. Commonest in the sand area.

Mapy
Phil
1974

Journal

Isla Bartolomé, Galapagos, Ecuador

4-5 Feb Finally caught a number of larger ones (4-5") in the morning on the sand. They can't move well on the soft surface. Also caught an undersized boulder at night, a large ♂. All seem very light.

Geckos present not easy to come by. Took over an hour to get 12. We worked the beach & the hard lava with no success, except for 2 individuals (one on a dead stump) all the rest came from the soft lava area

Fresh turtle tracks on the beach in the morning. One had swum in, walked up the beach to the first vegetation, excavated a hole under a bush, presumably layed eggs, & departed. Trail unmistakable bulldozer-like. Caught & saw one laying eggs on Santiago.

Mosquitos (from Santiago) made it all the way out on board at night. From mangroves.

Did some fishing. One of the things caught was a 4-5' moray eel. very ugly.

Never got ashore at Sullivan Bay, due the others said it was very pretty. Lava & mangroves, sort of like Fernandina.

Isla Duncan, Galapagos, Ecuador

5-6 Feb The Beagle dropped us off here (called Post Office Bay) which it ran large to Academy Bay. Let us off after lunch, returned to pick us up at 5:30 AM.

Myers
Phil
1974

Journal

Isla Duncan, Galapagos, Ecuador

5-6 Feb weather continues warm, heavy rain over nearby Santa Cruz. Once it sprinkled, but most of the rain missed us entirely. But mostly cloudy, humid & threatening.

There is no beach on this (E) side of island, only rocks & a few mangroves at the mouth of ravine. Small island 100 feet offshore. Trees are all low & scattered. Most <8'. Very, very dry. Few trees in leaves. There is a legume in fruit, & one other in leaves but it seems to be confined to the ravine. The ravine has sides quite of steep talus or sheer lava cliffs. Shallow caves, overhangs, etc.

They land & mangroves in/at the entire bay where we put ashore is full of sea lions. There are probably more than 50 nearby. Most are small, early immatures. One or 2 large, boistrous ♂'s. The immatures approach close & can be approached about their threatening us, something the adults will not permit. Might tried to fish from shore, but the sea lions played in his line & made fishing impossible.

Saw couple of sharks lying on the bottom in the bay, near the sea lions. The Beagle crew say that the sharks will prey on the sea lions, especially the little ones.

Nuyey Phil 1974

Journal

Isla Duncan, Galapagos, Ecuador

5-6 Feb But we saw no evidence of this.

Lots of rat sign, & I picked up a rat skull along the base of the cliff bordering Oloraviva. In the same area there were bits & pieces of prickly skin (of several individuals, or one individual widely scattered) & here & everywhere there were the ~~dried~~ legume seed pods there was evidence that the rats were gnawing on them. We set out 76 ~~Sherman~~ Tomahawk & 70 Sherman. ~~The~~ The Tomahawks went into Oloraviva & along the shoreline the Shermans went up the hill. At night I saw 2 rats, one quite outside of a Sherman eating oats. Other people saw other. Caught only 14 rats, both subspp., 13 in Tomahawks. They just don't like the Shermans. 4 of my 24 Shermans were set off, & several had fresh piles of legume pods nearby.

Lots of Tropidurus, not too skittish. Striped. Geckos were fairly easy to find under rocks during the day. We looked mainly where there were tufts of vegetation in the area heavily used by sea lions. Most that we caught were tiny, & we found 1 egg under a rock at night. They were very hard to find, the most that

Myers
Pleid
1974

Journal

Isla Duncan, Galapagos, Ecuador

5-6 Feb We got were bugger. Saw droppings & scratchings made by the land tortoise. Highland Duncan is one of the site where large #'s of turtle have been recently released.

Birding was bad. Warbler & the 2 flycatchers. We couldn't find any decent net sites. 3 finches were roosed.

Several hawks seen & as usual they attacked the occupied trap. I was surprised to hear from Patten that the hawks were also interested in the occupied Sherman, where they could hear, but not see, the occupant.

Cartago Bay, Isla Isabela, Galapagos, Ecuador

6-7 Feb To be remembered mostly for its fish. Caught numerous "pluma" with an elongated dorsal fin (delicious) & a sierra (mackerel) & others. Much more than we could eat. Saw lots of the sierra spawning near the boat. Tuna seen also. Large shark frequented the area as well.

Difficult approach. Rocky, shallow. Tide very low (moon full), great tidal amplitude. Thin strip of mangroves backed by lava which extends for

Virgen
plud
1974

Journal

Cartago Bay Isla Isabela, Galapagos, Ecuador
(short stretches of sand & sea shells)

6-7 Feb Hills. Some Scutes Cryptocarpus etc. Lava is mostly in a solid plate with large deep cracks. Depressions held fresh & brackish water. Grass, ferns in some of depressions & a trio of pintails floating on one. Even tho the water in the ponds nearer the sea was brackish, the ~~water~~ rose & fell w. the tide. Sea water must push the entire water Table up & down.

Had rain almost continually over the nearest mountains. In late afternoon it finally reached us & rained hard for a couple of hours. Refreshing. Water heard running under the lava.

Set out #1, 7 tomahawks in & near the mangroves. Caught 4 rats. Saw no nest sign. But there is an abundance of goat sign, both droppings & bones. Evenings also saw both cat (one) & dog (pair) feces. I see lizards, but it's an inappropriate place.

Birds difficult. We set up 4 nets in late afternoon just before the rain, & Nancy set up another the next day. Between downpours of vegetation & along a sandy strip saw a pair of finches. Caught Galapagos flycatcher, warbler, & 1 finch.

Tropidurus also difficult. Very, very

Nugey
Phil
1974

Journal

Cartago Bay, Isla Isabela, Galapagos, Ecuador

6-7 Feb skittish & very few adults. Due to the roughness of the landing & the fact that we already have gekos from Tagus Cove, we did not try to catch gekos at night.

Mosquitos at night!

Conway bay, Isla Santa Cruz, Galapagos, Ecuador

7-8 Feb 6 hr cruise, arrived mid afternoon. Shallow. Nearly part of Santa Cruz is generally low, no very small peak near the beach. Sandy beaches alternating with rocky beaches, 1:2 about. Then very brief Cryptocarpus - Scutia Zone, usually less than 5 m deep. Then shrubs, small trees, some Scutes, etc. Trees are higher (up to 15') than were seen for several days, & denser. But very dry - no leaves.

Sprinkled some, raining harder inland. Overcast, cleared up after 8-9 PM. Rainbow in the moonlight, full moon. temp in 70's, humid. Mosquitos, flies & gnats.

Right after we arrived the Captain & his wife (Schuyers) took us in the zodiac to a nearby bay S of the anchorage a short distance. Water 10-15' deep, mangroves of at least 2 spp interested by numerous narrow channels & lagoons. We cruised around in this for an hour & a half

Myers
Phil
1974

Conway bay, Isla Santa Cruz, Galapagos Ecuador

7-8 Feb. looking for rats. The captain's daughter had found a fascies (boreal?) hanging from the branches of a mangrove in this bay on a previous trip. We also found one hanging from a dead branch on one of the darker, smaller leaved, denser mangroves L. conveces. Hanging more or less in the open, easy to grab. Did not awaken despite much shaking as I climbed the tree. Pregnant ♀ 2 embryos (CR=15mm), entered in Patton's catalogue (#4052). Saw no others.

The tide was very high. We turned a few rocks right at the water's edge, saw 2 geckos. They may have been forced out of their normal haunts by the high water.

Back on the sand & rocks we set out the #6 tomahawks. Caught only 4 rats, despite the excellence of the habitat. Lots of hermit crabs. No useful trends regarding successful trap localities. Tropidurus collected as usual. They are also small & shuttle a large proportion of minutes. Geckos were hard to find until Mary & Jane & Isabel working over dead trees peeling bark. We might daylight that those ~~not~~ we got from rocks tended to be in the sea level, from the moon at the bar. Mine didn't

Wages Pub 1974

Journal

Conway bay, Isla Santa Cruz, Galapagos, Ecuador

Feb 7-8 conform, but I had only 4.

Lots of goat feces & some bones. Patton found 2 land iguanas, about 1m in length. 9 was on the a patch of dampened bare earth, a nest?

Nancy got only one possibly useful finch - either a large G fortis or a small G. magnirostris. Other were what we caught at Academy bay. Also mockers & warblers. Saw penguin both sis the end of Conway & among the mangroves.

Isla Baltra Galapagos, Ecuador

8-9 Feb Put in at the gov't pier to drop Dottie off & refuel. Wights went to nearby Daphne for lizards. 76 & rat traps out in Baltra mostly around the bldings. After dark Patton noticed a large # of rats in a tent pen near the Air Force Base so we moved a dozen traps up there & caught 8 rats. about 17 in all. No trouble getting the Iropedurus a gecko. ~~Last~~ for Two years ago the geckos were scarce but this year they are abundant & large. We went out in 3 trips, picked up 29 in an hour & a half. One pile of cinder blocks was particularly productive

We were forbidden from taking any birds.

In general this is a dull, desolate

Wyss Phil 1974

Journal

Isla Baltra Galapagos, Ecuador

8-9 Feb disturbed island, at least around the AFB. No large trees, lots of dogs, undoubtedly cats, rats, etc. Trash & tourists, fishing boats, spilled petroleum, etc.

Overcast mostly. Some rain, one good shower lasting 30 minutes & several minor sprinkles.

James Bay Isla James, Galapagos, Ecuador

9-11 Feb 2 nights here. On the 2nd day the Wrights & the Beagle took off for Marchena to spend the 2nd night in a 3rd attempt to get the geckos. They did.

James is another heavily touristed spot. The Iguanas & the Flamingos - varying ±6 tourist ships - were both in along with 3 other smaller tourist boats & 4 or 5 lobster boats - during the time we were there. Numerous old wrecked bldings (a salt industry & perhaps a canning factory?) nearby. Fresh water permanently available & reasonably easy access to arable land in the high country (there was a chacra, but it has been many years since anyone has farmed it). The park people have a building & are in the process of installing guide poles to & lock guide

Wyge
Phil
1974

Journal

James Bay, Isla James, Galapagos

9-11 Feb restrict the wanderings of the tourist.
"El Condorito" - an old goat hunter - was the park man in residence while we were there.
There is not a permanently someone here, but they often is.
Furthermore feral animals are rife. Pigs & goats everywhere We saw dozens of goats. Learned that the best way to hunt them (sans rifle) is to run them down. They run only in a spurt. If we can keep track of them for a little while - & has the endurance to keep going - the goat will eventually stop in its track quivering just waiting to be done in. El Condorito said that he & 4 others had killed 200 pigs in 3 days in the highlands (with .22's). also burro cats, cat scats, dog scats, & numerous rats.
Rain, rain. Almost continuous in the highlands On the 10th when we desperately wanted to get into the highlands to hunt birds, storm after storm came down & dumped on us. Very wet, & not unpleasant (fairly warm at least in the lower 70's).
The first night (Feb 9) we set the 4 Tomahawks right at the James Bay landing. As a result of our previous

Myers
Reed
1974

Journal

9-11 Feb

James Bay, Isla James, Galapagos, Ecuador

Efforts were concentrated in the piles of old wood & under the very dense Scalesia bushes. Netted 17 rats, all of the brown subspecies. On the 2nd night, sated w. Rattus & hoping to find an Oryzomys (last reported from this area in 1965-66) we carried the traps to a fresh lava flow which reached the sea nearby & set the 76 along its border (where the Oryzomys were reportedly found) (got 9, (3 brought in dead) more Rattus (one killed by lizards while still in the trap). all were from brush at the edge. None from in the lava. This somewhat surprising. The lava is deeply cracked & caved & often the cracks & caves are filled with Scalesia debris, vegetation, & deep in goat droppings. When we processed the rats we found a large % had scars of some sort - especially broken or partially amputated tails, but also some w. deep scars on their backs. Not the sort of scar that normally results from fighting among themselves. Hawks?

Tropidurus abundant & easy. Large ♂'s & ♀'s, reasonably tame. Most caught by hand. This despite the tourist pressure.

Geckos especially easy. Found & caught

Wesley Plid 1974

Journal

James Bay, Isla James, Galapagos, Ecuador

9-11 Feb. 30 cm less than an hour & could have caught many more. All were from the shell of a partially built building which consist of 70 or 80 wooden pilings 4-5" dia & 10-12' tall. Brush around bay or clear, some loose bark on a few. Geckos shared the post w. scorpions. It was my impression that the frequency distribution of the # of geckos/post would not differ significantly from a Poisson mean=1, but unfortunately we lacked a pencil & paper to try it. What scientists are.

The birds were fun. Mockers, dove, warbler, flycatcher all present. Numerous hawks. At one time we had 3 ~~in a~~ engaged in robbing a net & another 15 sitting nearby as spectators. Generally they sat & watched the net, striking as soon as a bird entered. We had to watch the nets continuously. Impossible to drive the hawks away w/out killing them. They are simply fearless. Picked up a # of ticks. G. Fortis & G. fuliginosa most abundant. Also caught G. difficilis, G. magnirostris, Certhidea, Camarhynchus parvulus & C. psittacula. Saw Platyspiza. Saw a flamingo.

Shared a couple of meals with

Meyer Plew 1974

Journal

James Bay, Isla James, Galapagos, Ecuador

9-11 Feb. "El Garabito" He supplied the goat meat (tough but v. a pleasant flavor) & we supplied the rest

Few sea lions, supposedly fur seals too (unconfirmed like all were Galaplus).

Spent the 11th working on board (at a bay ~30 minutes cruise distant NE), left that night, arrived Academy Bay on the 12th. Moored in Academy Bay, Isla Santa Cruz, Galapagos, Ecuador

12-15 Feb arrived 10 AM. Rain off & on, including one good shower in which ±½" fell in 30 minutes. Select 46 ~~Hours~~ Tomahawks in brushard the station. Caught 11 rats, all black. Nancy & others went up to Bella Vista, returned a day & a half late, with a couple of Ecuadoreans, camarhyncus parvus, & Cactospiza(?). Not too good.

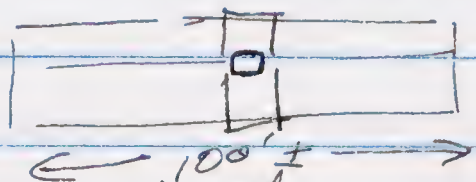
Rain continues in showers alternating with sunny, windy, humid weather. Said to be ± "typical" rainy season weather. Station people glad to see it. Probably makes the end of both, than a year of comparative dryness.

Myers
Phil
1974

Journal

9 April

Red Barn, National Seashore Headquarters, 1 mi. W. Olema, Marin Co. Calif. This is the headquarters for Pt. Reyes seashore, on the main road from Olema to Inverness. We arrived ~ 9:30 A.M. weather very partly cloudy, occasional rain showers. Had rained hard just before we arrived. Air temp about 12°C, light breeze. The barn itself is a large, wooden & concrete structure in the cluster of buildings around headquarters. It is long & narrow, wooden walls & roof. In the middle ~~of the roof~~ (in the long direction) ~~there is a~~ ~~short solid structure~~ the roof is vault up, so that from the air the building must have sort of a + shape, i.e., + a ~~support~~ cupola at top.



The bats are in the center area, between ~~under~~ rafters & the roof (made of some sort of composite material, red color on the outside) & hanging on the sides of the rafters. The pest service erected a scaffolding so that Pattas & Jones could get up to the bats to try to "eradicate" them. They also have placed strong lights near the roof, which human attractant during cold weather. And they have sprayed several times with pine oil with no permanent result.

There are ~~2~~ a number species. Myotis yumanensi

Myers
Phil
1974

Red Barn, National Seashore headquarters, 1 mi W Olema, Marin Co., California

9 April Was the smaller commoner species. Two of the clusters consisted of over 100 bats & there were probably at least 3-400 in the barn. The 2nd species is Myotis thysanodes, slightly larger. There were about 30 individuals in 2 groups of 15 & 50. We also caught 2 solitary Myotis californica, small & w. very small feet. Tadarida brasiliensis have been caught here — & the place still smelled of them. Also Antrozous. Droppings were deep on the rafters. It is obviously an old roost (the barn is at least 70 years old).

Air temperature in the barn at the level of the bats was 10-11°C. The bats were torpid, but after handling they began to arouse & 1/2 hr were flying. It was my impression that the M. thysanodes were deeper in torpor (or at least slower to arouse) than the M. yumanensis. Certainly the M. thysanodes were closer to the (turned off) light bulb.

About 50% of the M. yumanensis were vaginally pregnant & 90-100% of the M. thysanodes were pregnant. All bats were ♀ with the exception of one ♂ M. californicus that was (at) dissection).

Myers
Phil
1974

Muddy Hollow, National Seashore, Marin Co, Calif.

9 April After we finished at the Red Barn we came here. Take the turnoff to Limantour Spit. Follow it up over the ridge, down again to ~~the~~ turnoff & parking area labelled Muddy Hollow. ~10 miles? 2 trails, take the one to the left as you drive in (from where the road is barricaded) Follow ~200m to a ~~pleasant~~ building, ~30'×15', which houses a pump. Wooden bldg, save composite roof to the inside has tar paper covering the wooden sides, & in the past Potter & Jane have found bats between the tar paper & the wall. Lots of droppings ~~here~~ today, but the only bats were 10 M. yumanensis along the ~~roof~~ ridge of the ~~roof~~ ~~flaps~~ Potter pulled them out with hemostats - they were wedged up between the roof & the ceiling. It was an impression that the reproductive state of these is a little more advanced than that of the Red Barn animals but not sure. Also fat. The inside of the building was warm in comparison to the Red Barn, but it was late in the day. Saw many (10-12) deer - either fallow or axis deer - anyway, they were white.

Myers
Phil
1974

Journal

Red Barn, National Seashore hdqtrs, 1 mi W Olema, Marin Co., Calif.

1 May Went over in A.M. brig but dieoff. Picked up about 30 dead bats on floor, which added to those picked up by fast service people (Dick Brown) on April 24 equal over 70 bats (~75). Mostly Myotis ~~sp~~ yumanensis. 1 Antrozous & 1 Tadarida. all stages of decomposition.

Weather ~~is~~ warmer, partly cloudy. Temp in barn 60's here, warmed up to 70's later.

One of the lights (on the E? side) has burned out. These were erected by the Forest Service to drive out the bats & shine directly on the roost. They are attached to the wall by the roost & bats can get right next to them. Last time the bats were divided between the 2 sides of the barn — This time, they had all gone to one side — that with the light still burning!

The Antrozous (1 ending) were closest, then a solitary M. grouse of Myotis clyparods 4 or 5 feet from the light. Then M. yumanensis (~~of~~ 5 or 600 at least) about 10-15 feet from the light. We found several Tadarida mixed in with the M. yumanensis. Bats ~~to~~ slightly torpid, but came up quickly. ~~Bat~~

Wyo. Phil 1974

Red Barn, National Seashore Lidgtry, 1 mi W Olema, Marin Co. Calif.

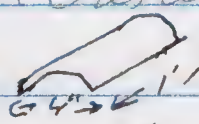
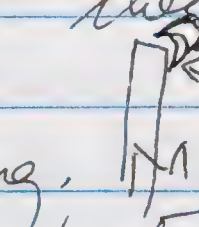
1 May We had no trouble in securing a sample of 300 + bats, but the roof was full of flying bats by the time we finished.

Very little fat on bats. Many nonpregnant, & many ♀♀ w. uteri only slightly swollen.

Also we found an Eptesicus fuscus or in the roof of the nearby fire house.

Muddy Hollow, National Seashore, Marin Co, Calif ± 200 ft. arrives ~ 11 AM. Temp in 70's. a few Myotis yumanensis in roof, but so active that we were only able to catch 6. 5 transp reproducts - 2 w. 8-10 mm embryos, 1 apparently nonpregnant, & 3 with small swellings, much like the April sample. no more fat than at Red Barn.

Hamilton Air force Base, Marin Co, Calif

7 May met Ed Donato - (spelling?) - 8 AM. contact was Major Parker, Civil Engineer. Donato is pest control. Drove around the base especially in Crescent road. rows of tile, each tile  & pottery-like material on the sides they overhang the walls of the bldgs  & the bats get into the overhang. Most bldgs with this type roof had stained areas & feces indicating bats. Donato had tried

Meyers
PhD
1974

Journal

7 May — Hamilton Air Force Base, Marin Co., Calif. spraying with a sticky substance to try to drive them off but the only result was to make the feces dirt stick harder to the walls. Estimate 10-30 bats / roof for most of the ones I saw. Went into the photo lab bldg, found a denuded T. adarida & lots of droppings. Recently screened however, & bldg is very tight.

Drove to bldg 424, arrived ~7 AM. Large amt of droppings. some fog, partly clearing air temp in 60's. Found a large amt of droppings by one well (nearest the runway), but no bats - looks like the droppings diff down between a board & the wall & the bat can't get in. Found a way up on the roof, & Jones picked about 60-70 T. adarida up by removing 2 rows of tile near the edge of the roof ~50' high. removed about 20 tiles total (or less). all T. adarida & all ♂'s (I looked at at least 10 bats / area) all jammed into the space between tile & top of wall.

Took the bats to Fort Baker, where they will be checked for rabies. 88 total — Fluorescent antibody rabies test: 47 tested, none rabid

15 May — Red Barn, National Seashore Hdqtrs, 1 mi W Olema, Marin Co., Calif. arrived 7:30 AM. clear temp in 60's F. past week has been clear & warm.

Myers
plid
1774

Journal

Red Barn, National Seashore headquarters, 1 mi. W. Olema, Marin Co, Calif.

15 May By arrangement w Dick Braun we had a key to get into the barn. There were more bats than last time, at least 6-700. all were on the W side, even the bath lights had been off for at least several days. No dead bat seen on the floor. The roof itself was almost entirely Myotis yumanensis. No M. thysanodes or Antrozous. Caught 4 Tadarida by working at it. about half are pregnant with large (13-20 mm) embryos the other have either very small (3-7 mm) swellings or are unpregnant. One is obviously nulliparous, with unfused epiphyses in the phalanges. Most bats are fat. Checked out the fire barn where we caught an Eptesicus last trip, but found nothing more than a few droppings. In the Red Barn we cleaned off the scaffold & roof beams & put down some metal trays to catch droppings. air temp in roost ≈ 11°C at 8 A.M.

Muddy Hollow, National Seashore, Marin Co. Calif ±200 ft arrived around 9 or 9:30. Saw one bat along the roof beam - a M. yumanensis & one under the bridge apparently a Tadarida (the first from here). But large pools of droppings on the floor & dropping splattered uniformly over $ inch of floor & walls. To this a night roost?

Myers
Phil
1974

Journal

Olema Marin Co, Calif

30 May 2 storey unused bldg at the NE corner of Calif rte 1 & the road from San Rafael to Olema owned by Ron Brandes, 48 Broadmoor, San Anselmo, who is converting it into a restaurant. The original bldg was built in 1877. They are now tearing down part of it & restoring the rest. The owner said that when they attacked part of the roof large #'s of bats flew up. about half the roof has now been removed. We saw no great amt of dropping on the floor under this area, tho there were some - maybe 5 - 10/ft² or more. But the owner claimed that previously there was a great deal

On exploring the rest of the roof (undamaged) we found 2 big clusters of ♀ Plecotus townsendi & 2 solitary ♂'s. The ♀'s were relatively alert & able to fly immediately or w/in a few minutes. The ♂'s were very torpid. We could see a few young hairless bats in the ♀ cluster. Since the whole attic & roof is to be torn up & repaired, we decided to collect as many bats as we could. I managed to capture 80-90% of the ♀'s (& all the ♂'s) by simply surrounding the clusters with the mouth of a bat bag & forcing them down into it.

Phone 454-3913

Myers
Phil
1974

Journal

Olema Marin Co. Calif

30 May We later counted 115 bats including probably 10-20 young born in the bag. Most of the ♀'s were pregnant, two or five were neither pregnant nor lactating. Most animals had a small amt of fat.

Temperature was in mid 60's°F. had been foggy earlier but clear when we arrived at the coast (8 AM).

Bats were in a very dark part of the attic space about 5' high hanging from central beam running length of roof. Small amt of dropping on floor here too - nowhere near a complete coverage of floor suggest they ~~came~~ just arrived, either from the other half of the roof or from elsewhere.

Red Barn, National Seashore headquarter, 1 mi. W Olema, Marin Co, Calif arrived 9 AM. Bats as usually. Picked up 3 M. thysanodes in a group near the light (are sedately still burning), & ~~a~~ ~~branch~~ are Lodariola & a branch of M. yumanensis from 15' away from the light. Fewer bats this time, probably <400. We could see a few young. No dead adults but we saw 4-5 dead neonates under the roost. Picked up the droppings from the aluminum pans we

Myotis
Plid
1974

Red Barn, National Seashore headquarters, Pt Reyes
Olema, Marin Co. Calif

30 May Put under the roost last time - wt= gms.
Took like we got ~ 90-95% of the droppings
actually in the pans.

~~Do~~ Prepared (skeleton & repro. tract)
15 ♀ M. yumanensis all were either
nulliparous (apparently) or very pregnant.
Looks like 16-17 mm ~~is~~ CL is barely
preparturn. The ~~is~~ wing membrane have
darkened & one bat was in the process of
giving birth to an ~~embryo~~ fetus this length.
No fat but the bats had been held 2 days in
a cold room before I got to them.
Olema, Marin Co, Calif

14 June 9 A.M., cool. Has been foggy. visited house of
Jones again. Still some Pleocles despite
the ~~the~~ our depradations of 2 weeks ago. 4 ♀
caught ~~2~~ ± about 2/3 of the bats present. all ~~F~~ adult
♀'s with (or without) ♂ 69 young. ~~gun~~ range in size
from recently born (+ pregnant bat) to
barely flying. I tattooed & released
the bats at Pearsons (Orinda). Unfortunately
several of the juveniles were left behind
Red Barn, ~~the~~ National Seashore Hdqtrs,
mile W of Olema Marin Co, Calif 9:30 A.M.
Temp at roost 17°C. 1 Antrozous, 1 Tadarida,
& 2-300 adult Myotis yumanensis.

Myers
phil
1974

Journal

Red Barn, National Seashore Hdqtrs, Inverness, Olema, Marin Co, Calif

14 June We took the Antiopes & Tadarida + about 25 M. fumarensis. Many juvenile in with the mat of bats. & May [illegible] clusters to die & rot, but nothing obvious & extreme. ♀'s on dissection (after 48 hrs in the cold room) were mostly either fat pregnant or lactating very little fat. 2 of 3 died in bag, & 2 aborted while in bag. W/ got one Eptesicus & in a car garage near the trailer camp at the Hdqtrs where park personnel live. ♂ in a crack in the roof.

Drakes Beach, National Seashore Marin Co, Calif

We walked E on the beach for 2/3 mile to check a report of dead gulls. There were about 30 on the stretch we walked, all obviously killed w. a shotgun. Also saw a brandt, cormorant (dead), a lot of common murres (alive, about 100 yds offshore) & picked up the head & stomach of a ♂ harbor porpoise (Jones).

Drove here (in a ranger's car) to check report of dead beaked whale (Berardius). Apparently true. Someone had gotten the head & promised to give it to California Academy of Sciences if they got the postcranial skeleton. So Jones wanted to get it for them. A juvenile, about 20 feet long, very

Wiggy
Phil
1974

14 June rotten. Just thought it had been on the beach about a month. We cleaned off the bones & carted them out. Also got the stomach, which contained a pair of squid beaks.

Later - whale turned out to be a Mesoplodon sp.

Red Barn, National Seashore Hdqtrs, 1 mi. W. Olema, Marin Co, Calif

3 July Foggy early, clear at Hdqtrs when we arrived at 9:30 AM. Temp at roost 18°C. Only 1-200 bats there. Antrozous, the rest M. yumanensis a few adult-sized young (told by grazer pelage) many recents, born yesterday (a few days or two). Over 40 young dead in the attic, beneath the roost. Collected the Antrozous (a 09) & 15 Myotis, 1 Myotis was pregnant. The rest either lactating or with swollen or enlarged nipples. The Antrozous has a strong, peculiar odor. Penis is very broad, (broader than long) looks like part is somehow everted. Is this the source of the smell?

Hastings Reservation, Monterey Co., Calif.

9 July Pearson, Tom, Phil & I arrived in the midst of a rain that eventually left 1/4 inch on the ground, shattering all previous July records. Temp warm, in 60's & 70's. Cleared off the night of July 10-11.

Myers
Phil
1974

Journal

Hastings Reservation, Monterey Co., Calif.

9 July Set Pearson's 3 Calhoun lines - 225 snaptraps in all (35 station in chaparral, 20 each in oak woodland & grassland). Didn't see much sign - perhaps a few Microtus. The channel seems greener than ever before (even despite today's weather). A few grass stalks (oat) are still greenish at the base & there is more water in the creek than is usual for this time of year. Temp has been below average according to Griffin.

Bobcat on School hill (at lower end of Mayfield) in PM. Fewer deer than normal - saw only 3-5 while setting traps.

10 July Partly cloudy & cold. Temp in 40's-50's.

13 Mice: chaparral line had 1 Dipodomys, 1 Neotoma, & 4 Peromyscus truei or boylei; grassland had 1 Microtus, 1 Reithrodontomys & 4 Peromyscus maniculatus & oak woodland had 1 Peromyscus truei or boylei; also, from tomtrees, 1 Dendroica virens, & 1 Wilsonia from chaparral. Some pregnancies, most mice fat. The Microtus was a big (57 gm) ♂, nonbreeding. Bobcat in Pearson field near the Channel at the base of Haystack hill.

Friday we drove to the San Antonio de Padua mission near Jolon, Monterey Co. Lots of ground squirrel & helicopter in the Hunter Liggett military area, which

Myers
Phil
1974

Journal

Hastings Reservation, Monterey Co. Calif

10 July sunset. At museum. Large roost of Tadarida(?) in the museum roof (by smell & sound). In PM Griffins came up to the kitchen area (Davis home, where we are staying). In front of them they inadvertently drove a bobcat, which walked by our windows a few seconds before they arrived. The jays were very upset. No mice in PM, but caught a few in grassland.

11 July 10 mice: from oak woodland 1 P. boylei-truei; from meadow, 1 Reithrodontomys & 2 P. maniculatus from chaparral, 4 Peromyscus californicus & 2 P. boylei-truei. Must be that P.c. doesn't like the rain. Also one Neotoma in chaparral. Lots of spring & dragged trap - one of which had a piece of Dipodomys tail under the bar. Most mice seem to be coming from the interior of the chaparral rather than the edge. AM - went out to Bell's ranch to check a report of bats in an outhouse roof. There weren't any. Also checked "Pati "Cabin" - an abandoned cabin on reservation property near the road. About noon I went up the hill E of Bell's house (on the reservation) to look for bat pellets, & we had seen kits

Wyley
PhD
1974

Journal

11 July

Hastings Reservation, Monterey Co. Calif
perch ~~ties~~ & lowering (mostly above
(chanise ~~and~~ behind ~~the~~ & above the
water tank) In an hour & a half
I found 2 pellets each of which contained
pieces of one Microtus. Perhaps
~~100~~ 70 meters N of the water tank right
near ~~the road~~ a fence (which runs
along the water tank hill & E of the
Red House), I heard a lowering a
growling sound which I thought at first
might be ~~coming~~ a car near Bell Horse.
Suddenly a bobcat jumped out of
a bunch of chamise about 20 feet
in front of me. It charged right at
me stopping about 10 feet from me.
There it paused, growling back
slightly arched, making threatening
movements. I retreated. It charged
again, up to no more than 4 or 5 feet
from me. By this time I was 30 feet
or so from the bush in which it had been
concealed. I waved my arms, yelled
& picked up a piece of wood & it
ran back to the bush. It
continued growling until after I was
out of sight. I am convinced that
if I had continued, rather than

Museum Pub 1974

Journal

Hastings Reservation, Monterey Co. Calif.

11 July retreat, it would have attacked me. [illegible] about 2 hours later I went back with Pearson, Tara, & Philip, to try to photograph the bear. But it had apparently left. It looked as if there might have been a burrow beneath a large bush but we weren't about to investigate closely.

This was the fourth bobcat we've seen in 2½ days.

Yesterday today was clear but cool & breezy. Max temp in 70's.

& PM - one Pipilo & in meadow trapline one juvenile chipping sparrow in oaks.

12 July Still clear & cool. Picked up traps. Nothing in oaks. Meadow - 4 P. maniculatus, 2 Reithrodontomys. Chaparral - 3 (?) P. truei-boylii. Several birds (see Rearm). Of the total 33-34 mice caught these last 3 days, 25 were ♂.

Red Barn, National Seashore Hdqtrs, 1 mi. N Olema, Marin Co Calif

18 July We started in on the roost at about noon. The weather is clear & unusually warm for Pt. Reyes. The temp. is in upper 70's - low 80's. At the roost the temp was 24°C. Only about 15 bats were hanging at the usual place. But there were many hidden to me, in the

Myers
Phil
1974

Journal

Red Bars, National Seashore Lndgtrs, 1 mi. W Olema, Marin Co., Calif.

18 July roof. While we could hear ~~the~~ seals on the roof as a hotter day they would be closer to the roof. Only 2 live gray seen, though of course more may have been present. There were 107 dead grays in the latter below the roost. Picked up the trays under the roost. Nearly 600 gms of feces (& dead gray) have accumulated since the last time we emptied the trays, 14 June. Also present were 1 M thysanodes & no T. adelaida. Most of the dead signs of recent lactation but several were obviously not presently nursing even tho milk was expressed from their nipples. Most had a fair amount of fat. We checked the fire hose & found no bats. There were a few droppings. The cat bones, however, produced one first for M. yumanensis. Looks like a non-breeding ♂, but I preserved the testes. He was by himself.

Muddy Hollow, National Seashore, Marin Co., Calif. ± 200 ft. This time there were bats & lots of them. M. yumanensis? — rather reddish. They were out on the beams on the roof rather than up under the sub-roof. I captured about 10. At first I thought they were pregnant & lactating,

Myotis
plus
1974

Journal

Muddy Hollow, National Seashore lndgty, Marin Co. Calif

18 July but then I realized the were all very fat. Dissection confirmed this. Numerous gray pelage & beetles flying. Looks like whole area mosed exp the Red Barn has not struck here. When we disturbed them they flew around, one ~~crawled~~ landed & crawling down ~~behind~~ between the tar paper & wood on the walls.

Berries are in fruit. Lots of birds in the bushes.

1 mi SW Vacaville, Solano Co. Calif.

30 July Coffert farm. owner is grandmother of Anne Jacobberger meet the curatorial assistant very old somewhat dilapidated buildings. 5 or 6 at least are seldom used. There were bat droppings in three buildings but the only bat seen was a ♂ Eptesicus caught hanging under the eves. Found the mummified remains of a squashed Myotis californicus underneath a ~~w~~ cardboard stacked to a wall also.

Several suburbs are California oak forest & oats grassland. Lots of wales nearby (a stream & small reservoir). They say they are usually more bats.

Myers
Phil
1974

Journal

Red Barn, National Seashore, Hdqtrs, Point W.
Olema, Marin Co., Calif. clear at 10 PM.

30 July temp at roost 20°C. 6 Antigone 4 in a cluster by the light & 2 apart. all are adult ♂'s only 6 Myotis yumanensis visible. all collected 3 were juveniles + but flying. Many more bats were present up under the roof where we could hear them but not see them. only 2 young dead beneath the roost. This time there were several Tadarida on the E side off the barn, mostly above the under the roof. But I saw a few. Strong odor.

Nothing in the car barn, & the car was no longer parked in an appropriate place to collect droppings.

Picked up a Phoca at Kelham beach. One of the rangers (Tom Vaughan) drove us in. On the route in, less than a mile from the gate beyond which the public must walk, we saw several (4-5) stick & leaf nests 50-60 feet up in a douglas fir. Bob mentioned that they might be Phenacomys which are not known from this far south. But nests were like squirrel nests. The nests were about halfway between the trunk & the periphery & appeared to be 1-2 feet in diameter.

Vagrs Phil 1974

Journal

5 Sept Red Born, Natural Seashore bdgtrs, mi n Olema, Marin Co, Calif — no bat hangers in the beam. We picked out a few from above the beam by using long tweezers. Related fecal droppings. ~~Two~~ One of Myotis thysanodes ~~in the feces~~ fecal pellets, probably a juvenile (?). Also an Antrozous & two Tadarida especially on the E ends of the barn. Muddy Hollow, Natural Seashore, Marin Co, Calif. Reports from the ~~park~~ park rangers (quietly by Dick Brown) that there were many bats. We used hand nets & magnets & caught all we saw 22 in total. There were lots of droppings. Evidence also that carpenters had been at work putting in new installations. Probably their hanging got the bats to flying around creating an impression of more bats than there really were. Most of these (15 of the 22) were tagged & released. The following is tabulated from extended examination:

PM 20 ♀ adult pelage

PM 21 ♂ juv. pelage

22 ♂ ~~juv~~ subadult pelage

23 ♂ juv. pelage, small size

24 ♀ adult

25 ♀ adult

Myers
Mid
1974

Journal

Red Barn, National Seashore hdqtrs, 1 mi. W. Olema, Marin Co., Calif.

9/5/74 PM 26 ♂ juv.
27 ♀ adult
28 ♂ juv.
29 ♀ juv.
30 ♀ adult
31 ♀ adult
32 ♀ adult
33 ♂ juv.
34 ♀ adult

bats released 9/6/74 from pen/cumare.
Released in even appeared to be in good condition. Kept them overnight in a cold room.

9/9 ± Life Sciences Bldg, University of California, Berkeley, Alameda Co., Calif.
Dept State of Environmental Health & Safety, light use a Tadarida. It had been captured in a 6th floor hall of Unit 3 Residence House (Ida Sproul Hall). I tattooed it #35 & released it.

12 Oct ±4 Red Barn, National Seashore hdqtrs, 1 mi W Olema, Marin Co., Calif. Clear & cool temp at roost 14°C. Saw only 4 bats - 2 Antrozous, 1 Myotis thysanodes, & 1 Tadarida. Took one Antrozous & the Myotis. May have been others up beneath the roost. all bats were on the W side. (in the light).

Myers
plus
1974

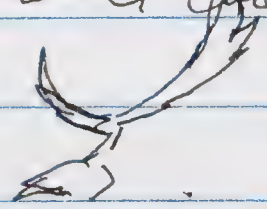
Journal

12 Oct Red Barn, National Seashore hdqtrs Inv.
W Olema Marin Co. Calif. few droppings in the barn. I did not disturb them. At the N end of the barn (by the exit near the ranger (Edings) there were a # of droppings on the floor & pieces of mole cricket. Could see no bats. Anticipated night roost.

Checked the car barn — droppings but no bats.

Muddy Hollow National Seashore, Marin Co. Calif
Picked 20 Myotis yumanensis from the rafters. 4 of these were juvenile & I released them in Richmond (unmarked). No great quantity of fresh droppings on the floor, but there were some.

Nice look at a fallow deer buck as it walked down the road 80 ft in front of us. Dirty white. Spoon shaped antlers in back spike in front. Massive neck the ^ the body was smaller than a mule deer



Saw a group of about 5 (or legs are okay) of what must have been their fledgling. Were like chuckling. This was about 10:30 P.M. For just leaving Muddy Hollow, the deer further inland.